


STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT <input type="checkbox"/>				
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Moon 3-25C5				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT ALTAMONT				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR EP ENERGY E&P COMPANY, L.P.						7. OPERATOR PHONE 713 997-5038				
8. ADDRESS OF OPERATOR 1001 Louisiana, Houston, TX, 77002						9. OPERATOR E-MAIL maria.gomez@epenergy.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) Fee			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Moon Land & Livestock Limited Partnership						14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-738-2526				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') P. O. Box 171, Duchesne, UT 84021						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		846 FSL 1060 FEL		SESE	25	3.0 S	5.0 W	U		
Top of Uppermost Producing Zone		846 FSL 1060 FEL		SESE	25	3.0 S	5.0 W	U		
At Total Depth		846 FSL 1060 FEL		SESE	25	3.0 S	5.0 W	U		
21. COUNTY DUCESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 846			23. NUMBER OF ACRES IN DRILLING UNIT 640				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1500			26. PROPOSED DEPTH MD: 10800 TVD: 10800				
27. ELEVATION - GROUND LEVEL 5750			28. BOND NUMBER 400JU0708			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Duchesne City				
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Cond	20	13.375	0 - 600	54.5	J-55 ST&C	8.8	Class G	1292	1.15	15.8
Surf	12.25	9.625	0 - 1500	40.0	N-80 LT&C	9.5	Unknown	138	3.16	11.0
							Unknown	191	1.33	14.3
I1	8.75	7	0 - 7900	29.0	HCP-110 LT&C	10.0	Unknown	265	3.67	11.0
							Unknown	91	1.91	12.5
L1	6.125	5	7700 - 10800	18.0	P-110 ST-L	12.5	Unknown	184	1.47	14.2
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Maria S. Gomez				TITLE Principal Regulatory Analyst			PHONE 713 997-5038			
SIGNATURE				DATE 08/21/2013			EMAIL maria.gomez@epenergy.com			
API NUMBER ASSIGNED 43013523980000				APPROVAL  Permit Manager						

**Moon 3-25C5
Sec. 25, T3S, R5W
DUCHESNE COUNTY, UT**

EP ENERGY E&P COMPANY, L.P.

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers

<u>Formation</u>	<u>Depth</u>
Green River (GRRV)	2,174' TVD
Green River (GRTN1)	4,074' TVD
Mahogany Bench	4,974' TVD
L. Green River	6,374' TVD
Wasatch	7,974' TVD
T.D. (Permit)	10,800' TVD

2. Estimated Depths of Anticipated Water, Oil, Gas or Mineral Formations:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River (GRRV)	2,174' MD / TVD
	Green River (GRTN1)	4,074' MD / TVD
	Mahogany Bench	4,974' MD / TVD
Oil	L. Green River	6,374' MD / TVD
Oil	Wasatch	7,974' MD / TVD

3. Pressure Control Equipment: (Schematic Attached)

A 4.5" by 20.0" rotating head on structural pipe from surface to 600' MD/TVD. A 4.5" by 13-3/8" Smith Rotating Head from 600' MD/TVD to 1,500' MD/TVD on Conductor. A 5M BOP stack, 5M kill lines and choke manifold used from 1,500' MD/TVD to 7,900' MD/TVD. A 10M BOE w/ rotating head, 5M annular, blind rams & mud cross from 7,900' MD/TVD to TD (10,800' MD/TVD).

The BOPE and related equipment will meet the requirements of the 5M and 10M system.

OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:

The surface casing will be equipped with a flanged casing head of 5M psi working pressure. An 11" 5M x 11" 10M spool, 11" x 10M psi BOP and 5M psi annular will be nipped up on the surface casing and tested to 250 psi low test / 3,000 psi high test for 10 minutes each prior to drilling out. The surface casing will be tested to 1,000 psi. for 30 mins. Intermediate casing will be tested to the greater of 1,500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly

cock and floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low test / 4,000 psi high test. The 10M BOP will be installed with 3-½" pipe rams, blind rams, mud cross and rotating head from intermediate shoe to TD. The BOPE will be hydraulically operated.

In addition, the BOP equipment will be tested after running intermediate casing, after any repairs to the equipment and at least once every 30 days. Pipe and blind rams will be activated on each trip, annular preventer will be activated weekly and weekly BOP drills will be held with each crew.

Statement on Accumulator System and Location of Hydraulic Controls:

Precision Rig # 404 is expected to be used to drill the proposed well. Operations will commence after approval of this application. Manual and/or hydraulic controls will be in compliance with 5M and 10M psi systems.

Auxiliary Equipment:

- A) Pason Gas Monitoring 600' - TD
- B) Mud logger with gas monitor – 1,500' to TD (10,800' MD/TVD)
- C) Choke manifold with one manual and one hydraulic operated choke
- D) Full opening floor valve with drill pipe thread
- E) Upper and lower Kelly cock
- F) Shaker, de-sander and centrifuge

4. Proposed Casing & Cementing Program:

Please refer to the attached Wellbore Diagram.

All casing will meet or exceed the following design safety factors:

- Burst = 1.00
- Collapse = 1.125
- Tension = 1.2 (including 100k# overpull)

Cement design calculations for intermediate and production hole will be based on minimum 10% excess over gauge hole volumes. Actual volumes pumped will be a minimum of 10% excess over caliper volume to designed tops of cement for any section logged. A minimum of 50% excess over gauge volume will be pumped on surface casing.

5. Drilling Fluids Program:

Proposed Mud Program:

Interval	Type	Mud Weight
Surface	WBM	8.8 – 9.5
Intermediate	WBM	9.5 – 10.0
Production	WBM	10.0 – 11.0

Anticipated mud weights are based on actual offset well bottom-hole pressure data. Mud weights utilized may be somewhat higher to allow for trip margin and to provide hole stability for running logs and casing.

Visual mud monitoring equipment will be utilized.

6. **Evaluation Program:**

Logs:

Mud Log: 1,500' MD/TVD – TD (10,800' MD/TVD)

Open Hole Logs: Gamma Ray, Neutron-Density, Resistivity, Sonic, from surface casing shoe to TD.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 10,800' TVD equals approximately 6,178 psi. This is calculated based on a 0.572 psi/ft gradient (11.0 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 3,802 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 7,900' TVD = 6,320 psi

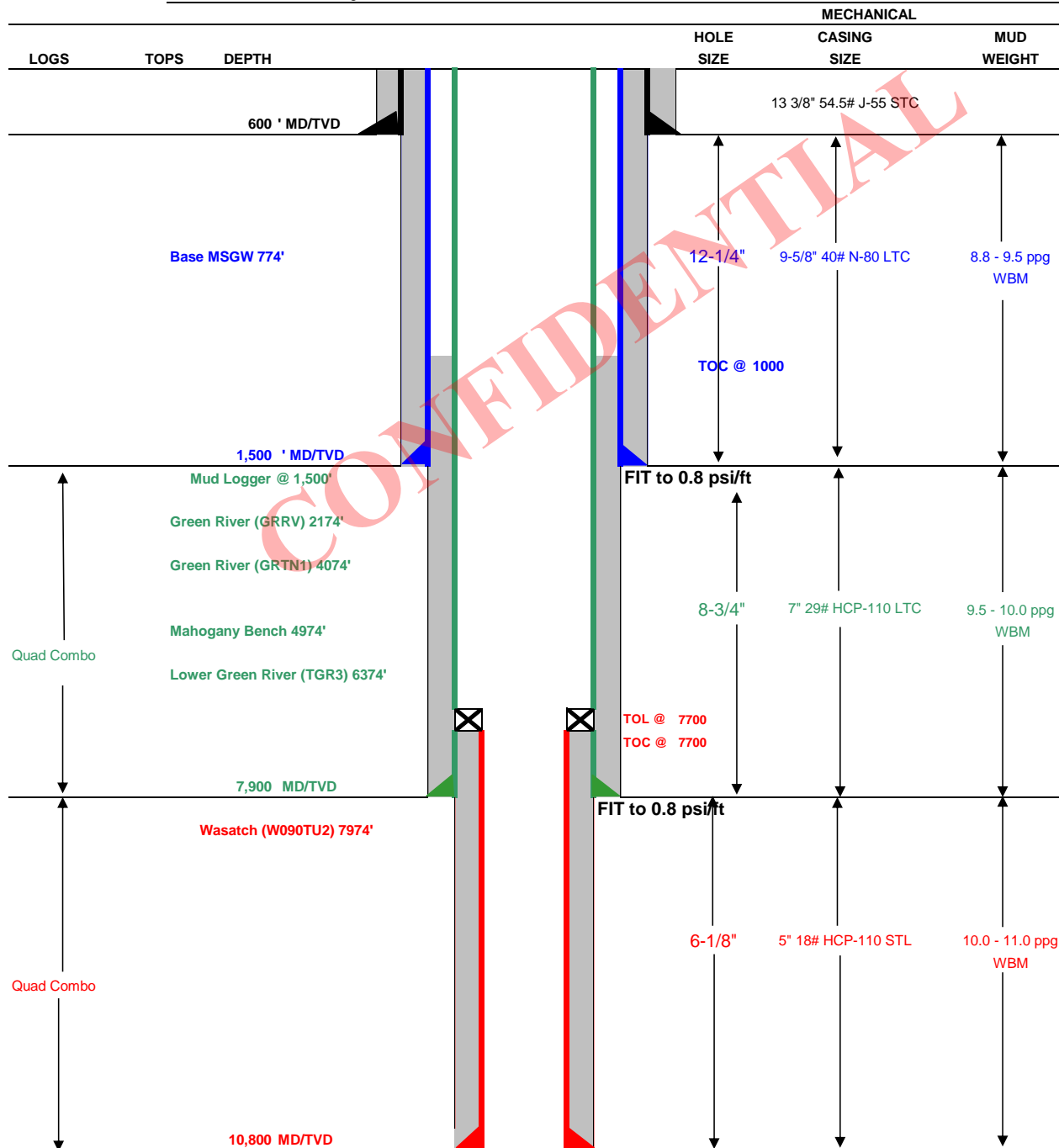
BOPE and casing design will be based on the lesser of the two MASPs which is 3,802 psi.

8. **OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.**



Drilling Schematic

Company Name: EP ENERGY	Date: August 16, 2013
Well Name: Moon 3-25C5	TD: 10,800
Field, County, State: Altamont, Duchesne, Utah	AFE #: TBD
Surface Location: Sec 25 T3S R5W 846' FSL 1060' FEL	BHL: Straight Hole
Objective Zone(s): Green River, Wasatch	Elevation: 5749.8
Rig: Precision 404	Spud (est.): TBD
BOPE Info: 4.5 x 13 3/8 rotating head from 600' to 1,500' 11 5M BOP stack and 5M kill lines and choke manifold used from 1,500' to 7,900' 11 10M BOE w/rotating head, 5M annular, 3.5 rams, blind rams & mud cross from 7,900' to TD	



DRILLING PROGRAM

CASING PROGRAM	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	13 3/8"	0	600	54.5	J-55	STC	2,740	1,130	514
SURFACE	9-5/8"	0	1500	40.00	N-80	LTC	5,750	3,090	737
INTERMEDIATE	7"	0	7900	29.00	HCP-110	LTC	11,220	9,750	797
PRODUCTION LINER	5'	7700	10800	18.00	HCP-110	STL	13,950	14,360	495

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR		600	Class G + 3% CACL2	1292	100%	15.8 ppg	1.15
SURFACE	Lead	1,000	EXTENDACEM (TM) SYSTEM: 5 lbm/sk Silicalite Compacted + 0.25 lbm/sk Kwik Seal + 0.125 lbm/sk Poly-E-Flake + 2% Bentonite	138	75%	11.0 ppg	3.16
	Tail	500	HALCEM (TM) SYSTEM: 3 lbm/sk Silicalite Compacted + 1% Salt + 0.3% Econolite + 0.25 lbm/sk Poly-E-Flake + 0.25 lbm/sk Kwik Seal + 0.5% HR-5	191	50%	14.3 ppg	1.33
INTERMEDIATE	Lead	5,900	EXTENDACEM (TM) SYSTEM: 6% Cal-Seal 60 + 5 lbm/sk Silicalite Compacted + 2% Econolite + 0.5% D-AIR 5000 + 5 lbm/sk Kol-Seal + 0.25 lbm/sk Poly-E-Flake + 1 lbm/sk Granulite TR 1/4 + 2% Microbead M-100 + 10% Econolite-322	265	10%	11.0 ppg	3.67
	Tail	1,000	EXPANDACEM (TM) SYSTEM: 0.2% Econolite + 0.3% Versaset + 0.9% HR-5 + 0.3% Super CBL + 0.2% Halad(R)-322 + 0.125 lbm/sk Poly-E-Flake	91	10%	12.5 ppg	1.91
PRODUCTION LINER		3,100	EXTENDACEM (TM) SYSTEM: 0.3% Super CBL + 0.1% SA-1015 + 0.3% Halad(R)-413 + 0.5% SCR-100 + 0.125 lbm/sk Poly-E-Flake + 3 lbm/sk Silicalite Compacted + 20% SSA-1	184	25%	14.20	1.47

FLOAT EQUIPMENT & CENTRALIZERS	
CONDUCTOR	PDC drillable guide shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing.
SURFACE	PDC drillable guide shoe, 1 joint casing, PDC drillable float collar & Stage collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter.
INTERMEDIATE	PDC drillable 10M,P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Make joint at 6,300'.
LINER	Float shoe, 1 joint, float collar. Thread lock all FE. Make joints every 1000'.

PROJECT ENGINEER(S): Brad MacAfee 713-997-6383

MANAGER: Tommy Gaydos

EP ENERGY E&P COMPANY, L.P.
MOON 3-25C5
SECTION 25, T3S, R5W, U.S.B.&M.

PROCEED NORTH ON PAVED STATE HIGHWAY 87 FROM THE INTERSECTION OF HIGHWAY 87 WITH U.S. HIGHWAY 40 IN DUCHESNE, UTAH APPROXIMATELY 2.43 MILES TO AN INTERSECTION;

TURN RIGHT AND TRAVEL SOUTHEASTERLY AND SOUTH 0.82 MILES ON A GRAVEL COUNTY ROAD TO THE BEGINNING OF THE PROPOSED ACCESS ROAD;

TURN RIGHT AND FOLLOW ROAD FLAGS WESTERLY 0.15 MILES TO THE PROPOSED LOCATION;

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 3.40 MILES.

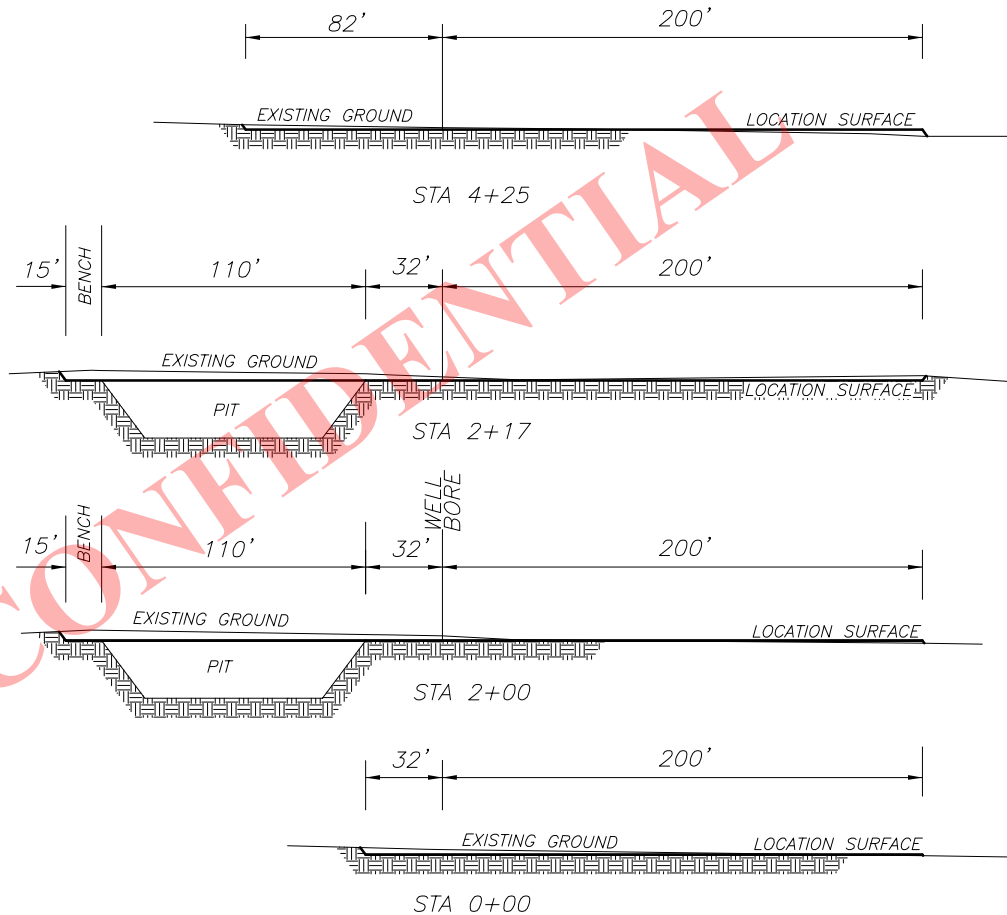
RECEIVED: August 21, 2013

EP ENERGY E & P COMPANY, L.P.**FIGURE #2****LOCATION LAYOUT FOR****MOON 3-25C5****SECTION 25, T3S, R5W, U.S.B.&M.****846' FSL, 1060' FEL**

1"=40'
X-SECTION
SCALE

1"=80'

NOTE: ALL CUT/FILL
SLOPES ARE 1½:1
UNLESS OTHERWISE
NOTED

APPROXIMATE QUANTITIES

TOTAL CUT (INCLUDING PIT) = 8699 CU. YDS.

PIT CUT = 4572 CU. YDS.

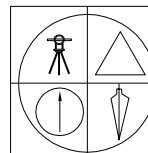
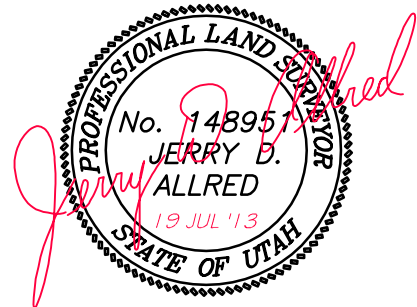
TOPSOIL STRIPPING: (6") = 2506 CU. YDS.

REMAINING LOCATION CUT = 1621 CU. YDS

TOTAL FILL = 1470 CU. YDS.

LOCATION SURFACE GRAVEL=1374 CU. YDS. (4" DEEP)

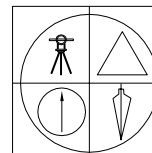
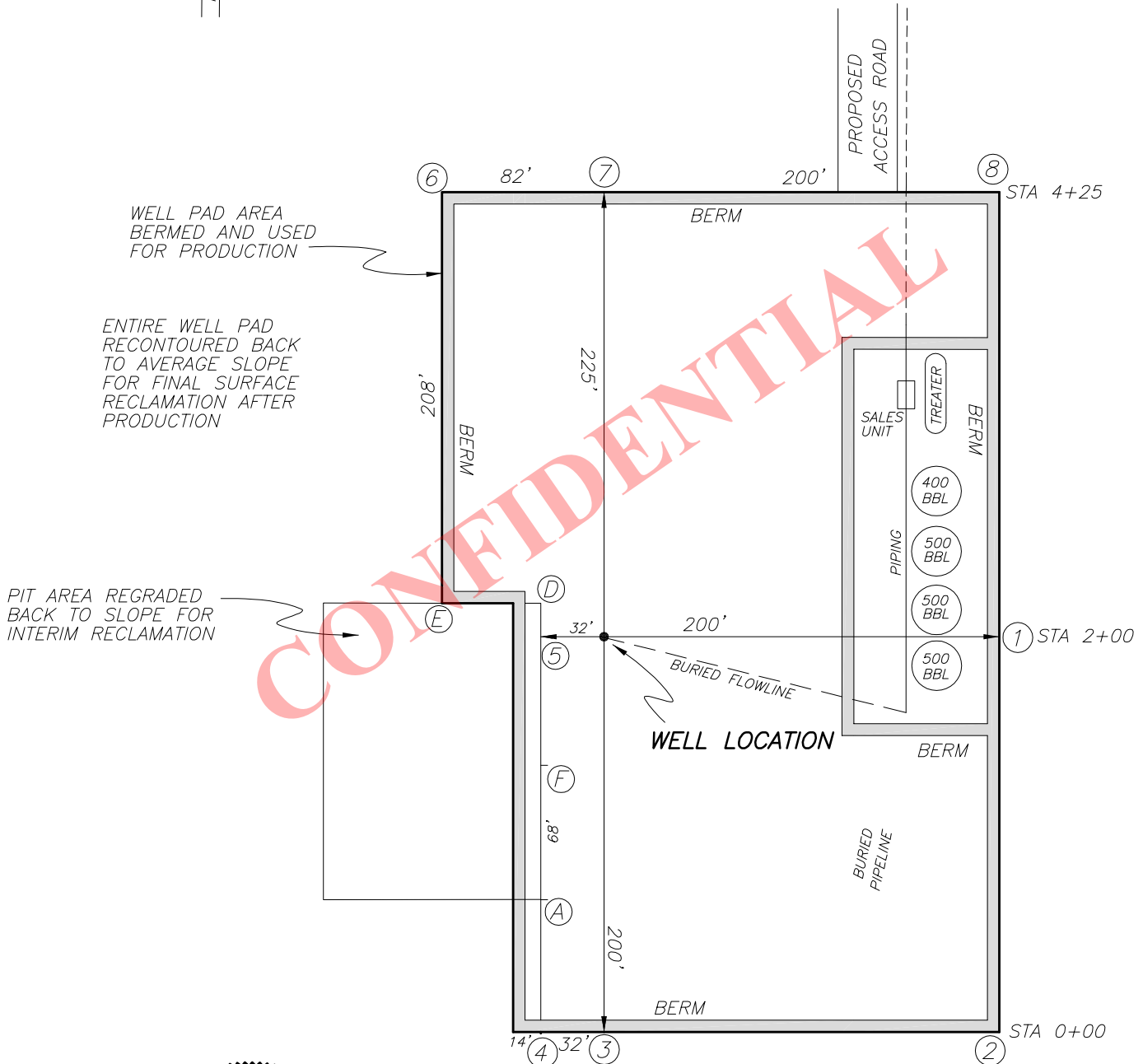
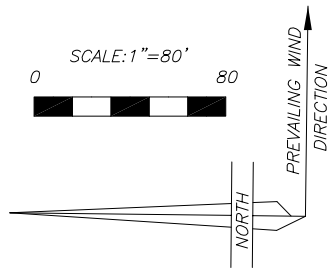
ACCESS ROAD GRAVEL=208 CU. YDS.

**JERRY D. ALLRED & ASSOCIATES**
SURVEYING CONSULTANTS1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352

19 JUL 2013

01-128-401

RECEIVED: August 21, 2013

EP ENERGY E & P COMPANY, L.P.**FIGURE #3****LOCATION LAYOUT FOR
MOON 3-25C5****SECTION 25, T3S, R5W, U.S.B.&M.
846' FSL, 1060' FEL****JERRY D. ALLRED & ASSOCIATES**
SURVEYING CONSULTANTS1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352

19 JUL 2013

01-128-401

RECEIVED: August 21, 2013

EP ENERGY E&P COMPANY, L.P.
MOON 3-25C5

LINE	BEARING	DISTANCE
L1	S 89°59'34" W	485.00'
L2	N 00°00'26" W	485.00'
L3	N 89°59'34" E	485.00'
L4	S 00°00'26" E	485.00'
L5	S 89°59'56" E	772.03'

NW¹/₄SE¹/₄
$$\frac{NE_{1/4}}{SE_{1/4}}$$

FOUND 5/8" REBAR
WITH ALUMINUM
COUNTY MONUMENT
AT 1/4 CORNER

ACCESS ROAD, PIPELINE, AND POWER LINE CORRIDOR RIGHT-OF-WAY DESCRIPTION

A 66 feet wide access road, pipeline, and power line corridor right-of-way over portions of Section 25, Township 3 South, Range 5 West, of the Uintah Special Base and Meridian, the centerline of which is further described as:

Commencing at the SE Corner of said Section 25;

Thence North 49°04'23" West 1063.40 feet to the TRUE POINT OF BEGINNING, said point being on the East line of the E.P. Energy E&P Co. Moon 3-25C5 well location surface use area boundary; Thence South 89°59'56" East 772.03 feet to the West right-of-way line of a City/County Road; Thence right-of-way being 772.03 feet in length with the sidelines being shortened or elongated to intersect said use area boundary and said right-of-way lines.

NOTE:

The Right-of-Way for the proposed pipeline will extend 66 feet past the West line of the County Road 3000 Right-of-Way to the East line of said Right-of-Way which is 33 feet into Section 30, Township 3 South, Range 4 West of the Uintah Special Base and Meridian.

SURVEYOR'S CERTIFICATE

This is to certify that this plat was prepared from the field notes and electronic data collector files of an actual survey made by me, or under my personal supervision, of the use area and access road, power line, and pipeline corridor right-of-way shown herein, and that the monuments indicated were found or set during said survey, and that this plat accurately represents said survey to the best of my knowledge.

Jerry D. Allred, Professional Land Surveyor,
Certificate 148951 (Utah)

THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT THE SECTION CORNER LOCATED AT LAT. 40°15'22.90258"N AND LONG. 110°23'21.19760"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

JERRY D. ALLRED AND ASSOCIATES

SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975

15 MAR 2013 01-128-401

01-128-401

1/4 CORNER
NOT FOUND

FOUND ALUMINUM
COUNTY MONUMENT AT
1/16 CORNER

31.31' SEC 36 SEC 31
FOUND ALUMINUM COUNTY
MONUMENT AT SECTION
CORNER

 $SW_{1/4}SE_{1/4}$ REINHARDT
PROPERTYREINHARDT
PROPERTY $SE^{1/4}SE^{1/4}$

MOON LAND
AND LIVESTOCK
PROPERTY

N 00°36'16" E 1339.35'

EP ENERGY E & P
COMPANY, L.P.
SURFACE USE AREA
MOON 3-25C5
5.40 ACRES

S.R. 87

SCALE: 1"=400'

0' 400'

008

1320.00

WEST (COUNTY ROAD) 131
(DUCESNE CITY STREET)

ST (DUCHESNE
7" E 2636.49'

DUCHESNE
CITY CORP.
PROPERTY

96

M.

002.76

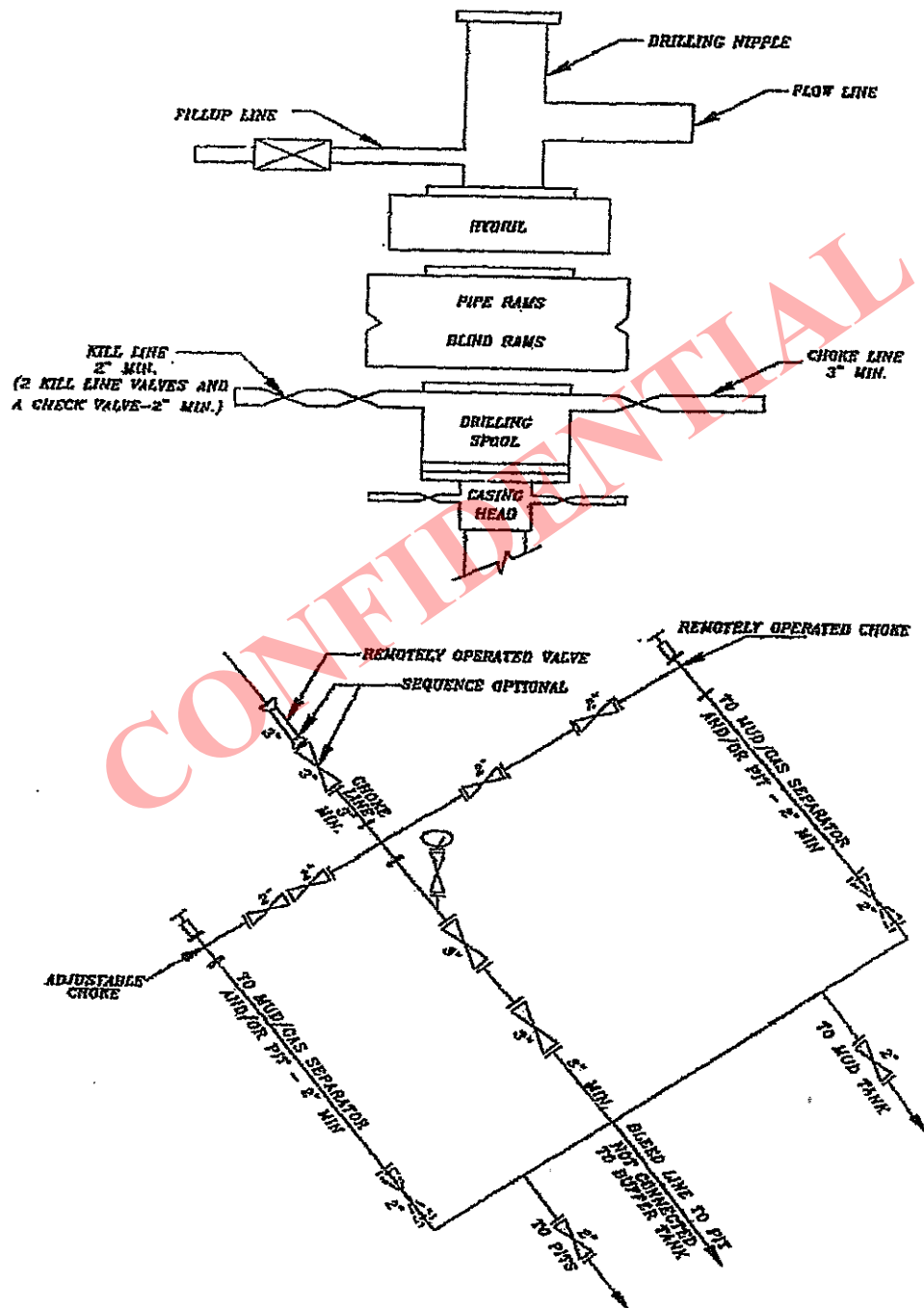
SEC 25 SEC 30

SEC 36 SEC 37

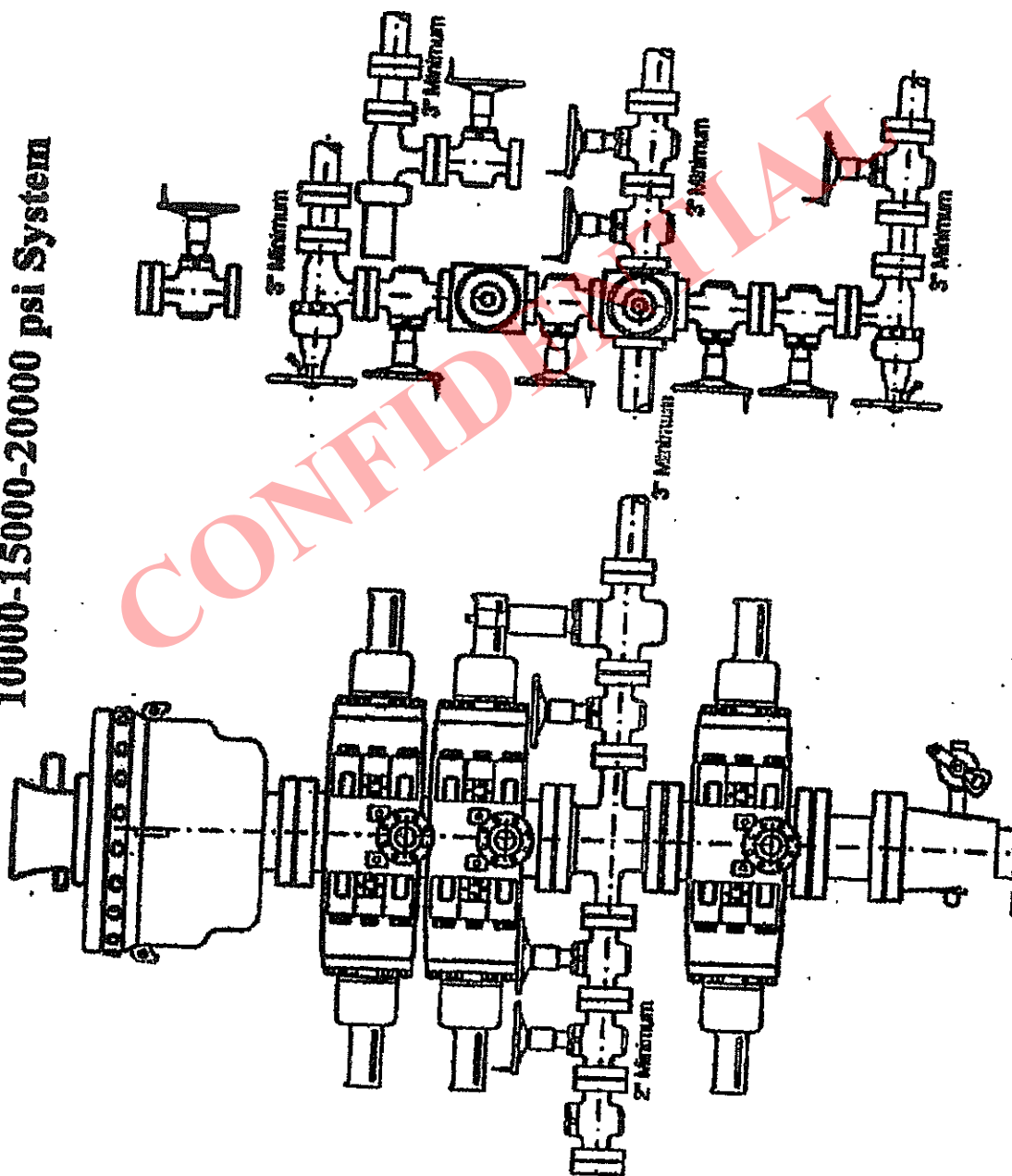
SEC 31

SEC 31

5M BOP STACK and CHOKE MANIFOLD SYSTEM



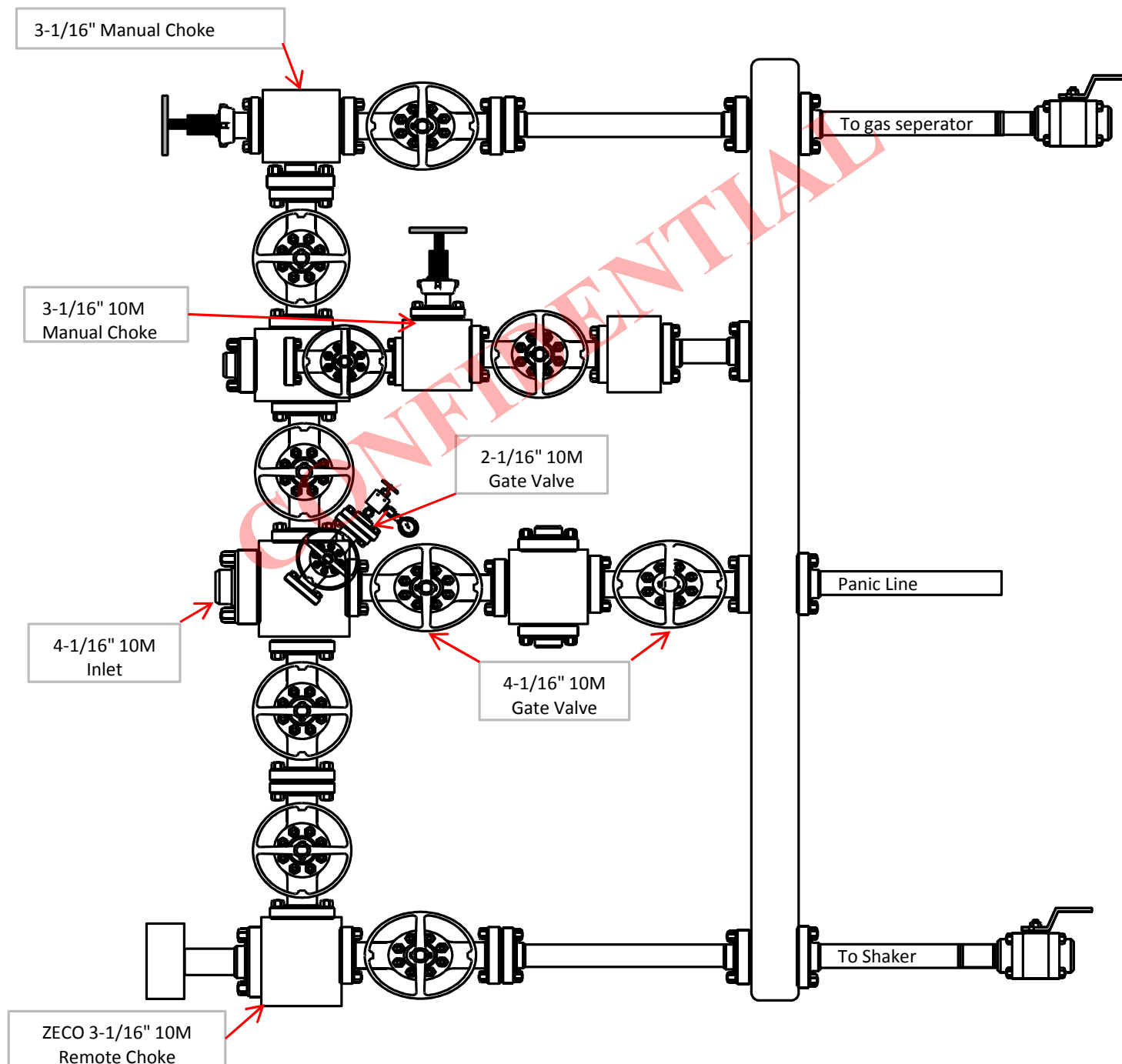
10000-15000-20000 psi System





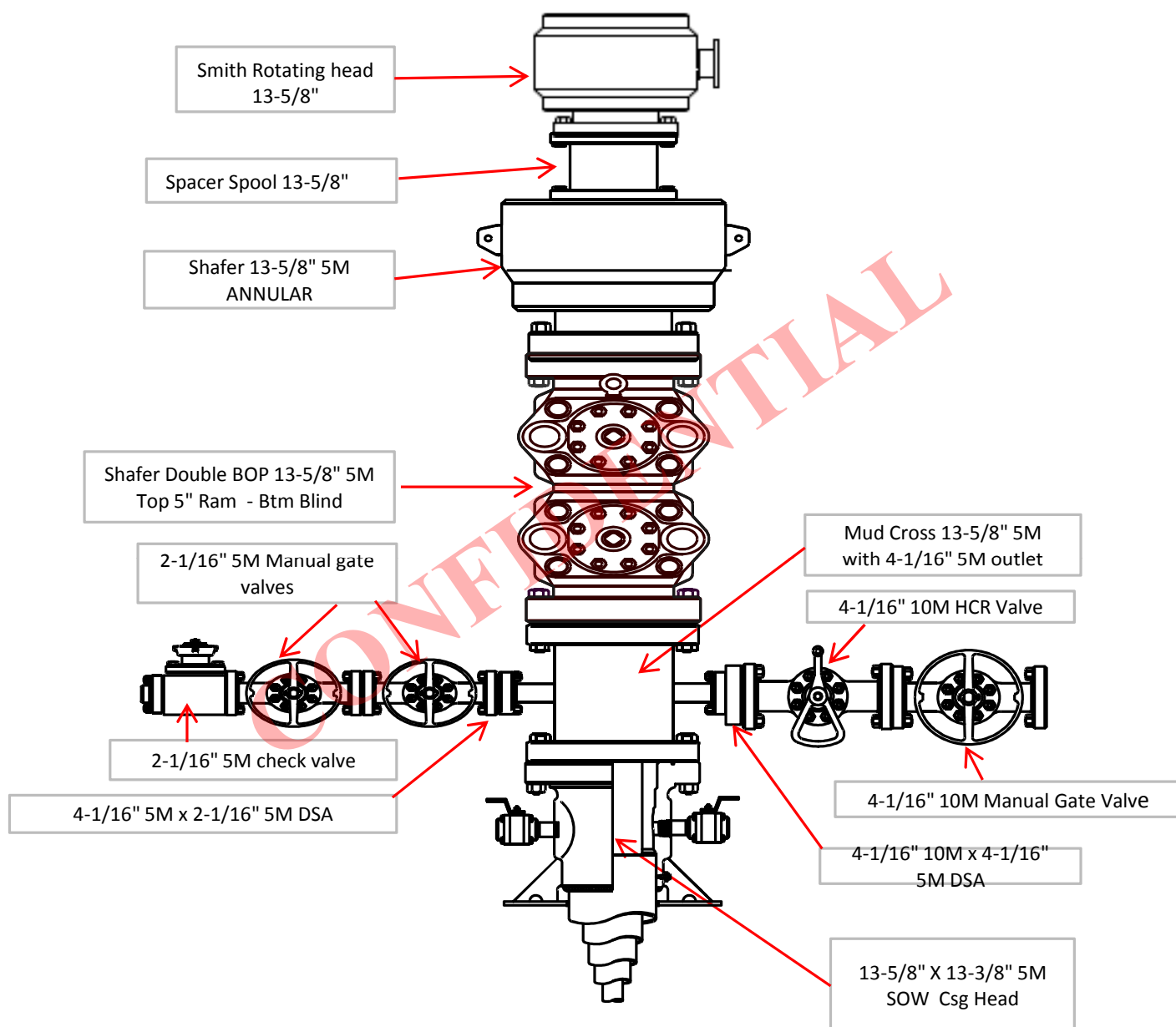
10M Choke Monifold Configuration Well: Ute Tribal 2-14A3

All valves on the Choke Monifold are 3-1/16" 10M except for those that are identified below.





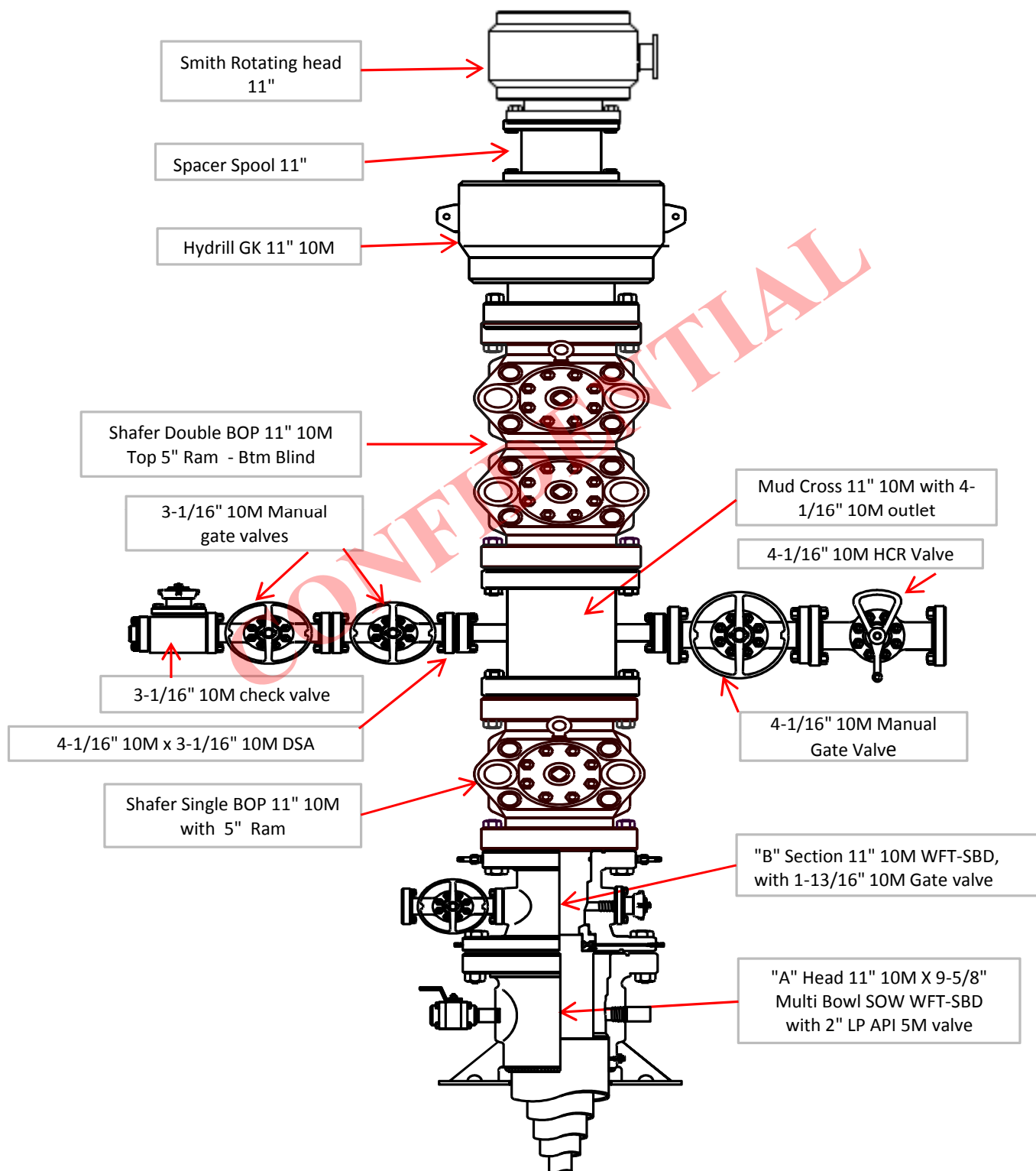
Surface 13-5/8" 5M BOP Configuration Well: Ute Tribal 2-14A3





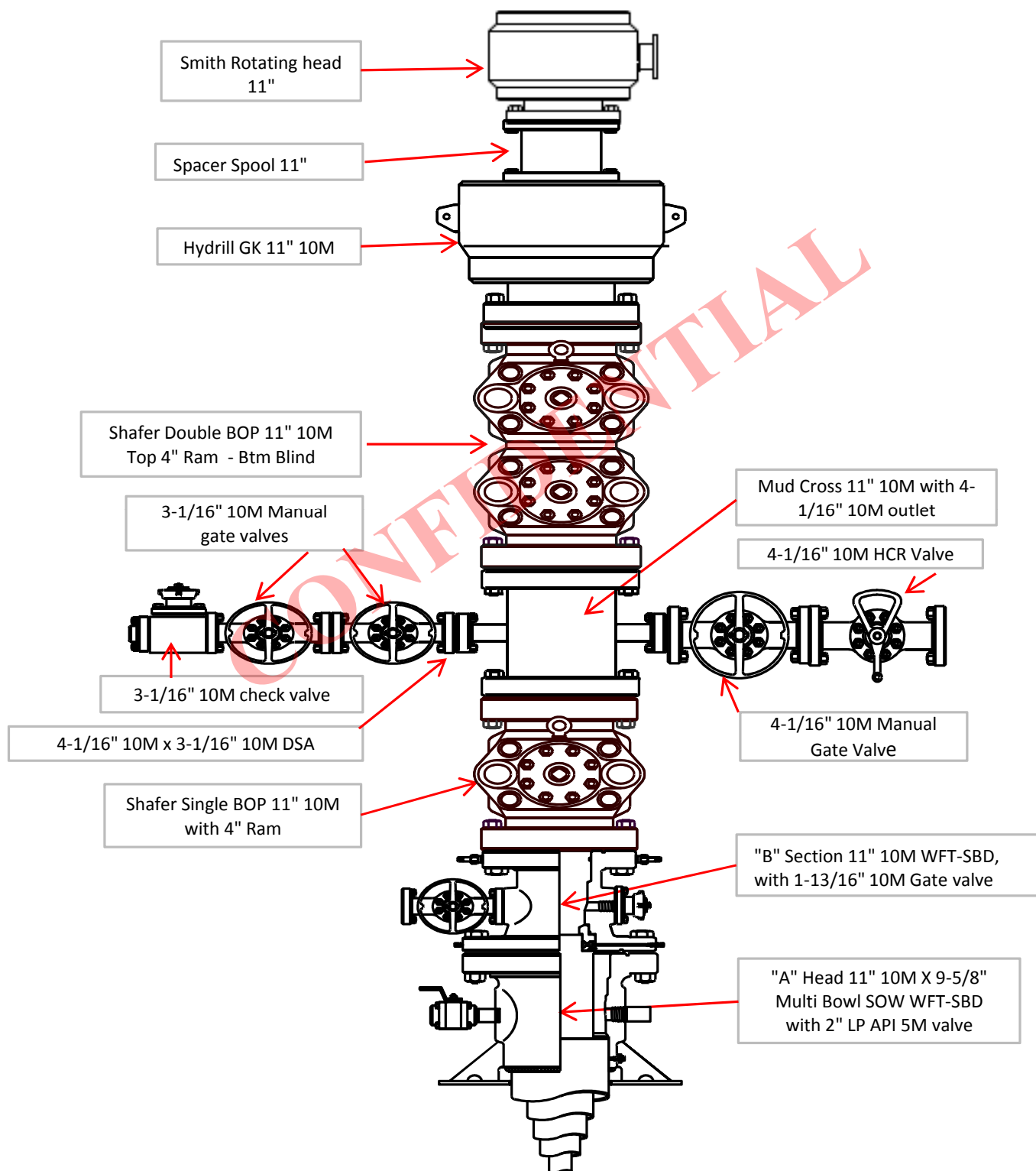
Intermediate 11" 10M BOP Configuration

Well: Ute Tribal 2-14A3



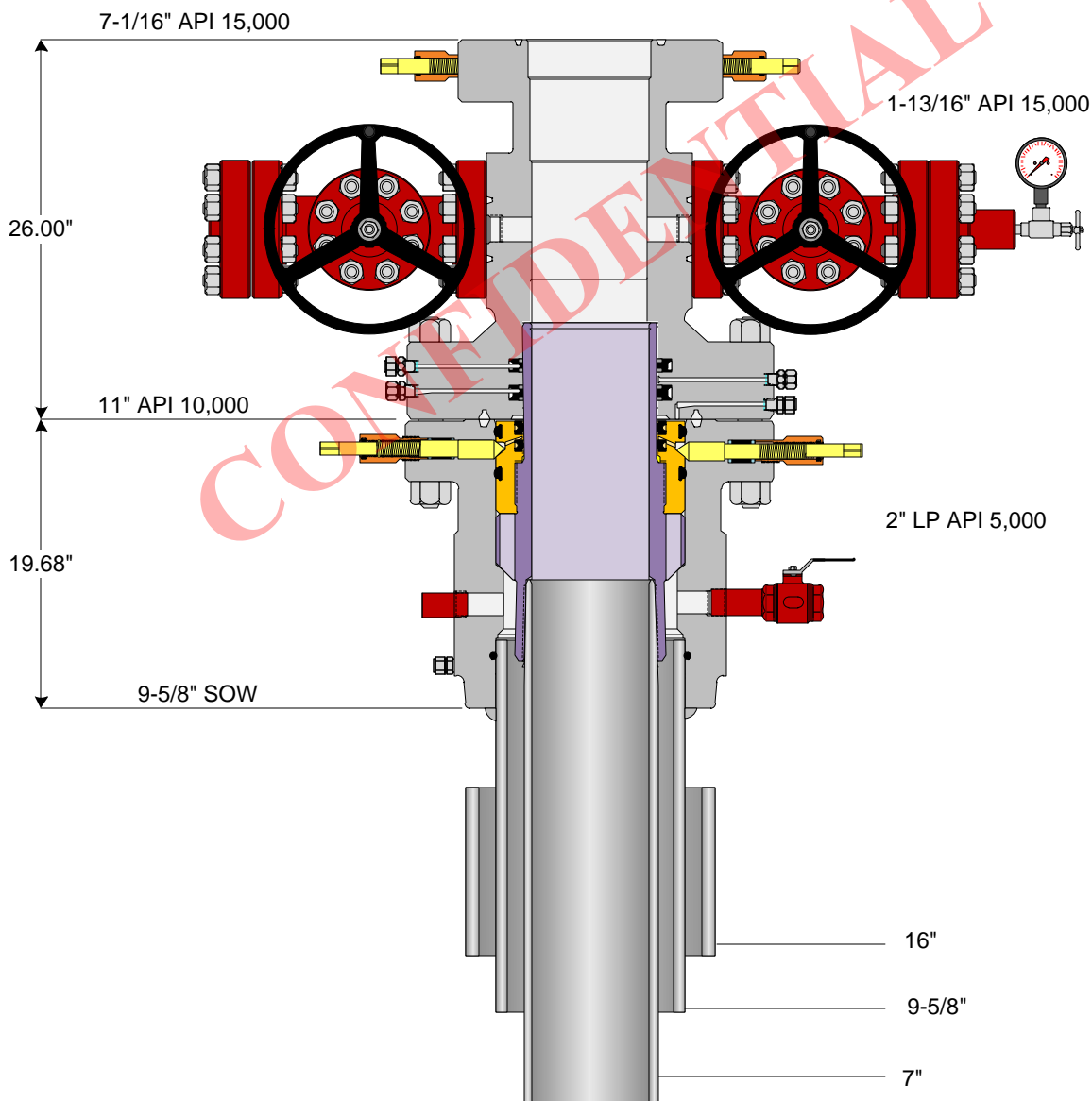


Production 11" 10M BOP Configuration Well: Ute Tribal 2-14A3



NOTE: THIS DRAWING IS NOT TO SCALE. THE DIMENSIONS REFLECTED ON THIS DRAWING ARE ESTIMATED DIMENSIONS AND ARE FOR REFERENCE ONLY.

WFT-SBD SYSTEM PRODUCTION PHASE



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Customer: EP ENERGY

Project No.: 75666

Quote No.: 161479

Project Name: ALTAMONT FIELD - 11" SBD SYSTEM

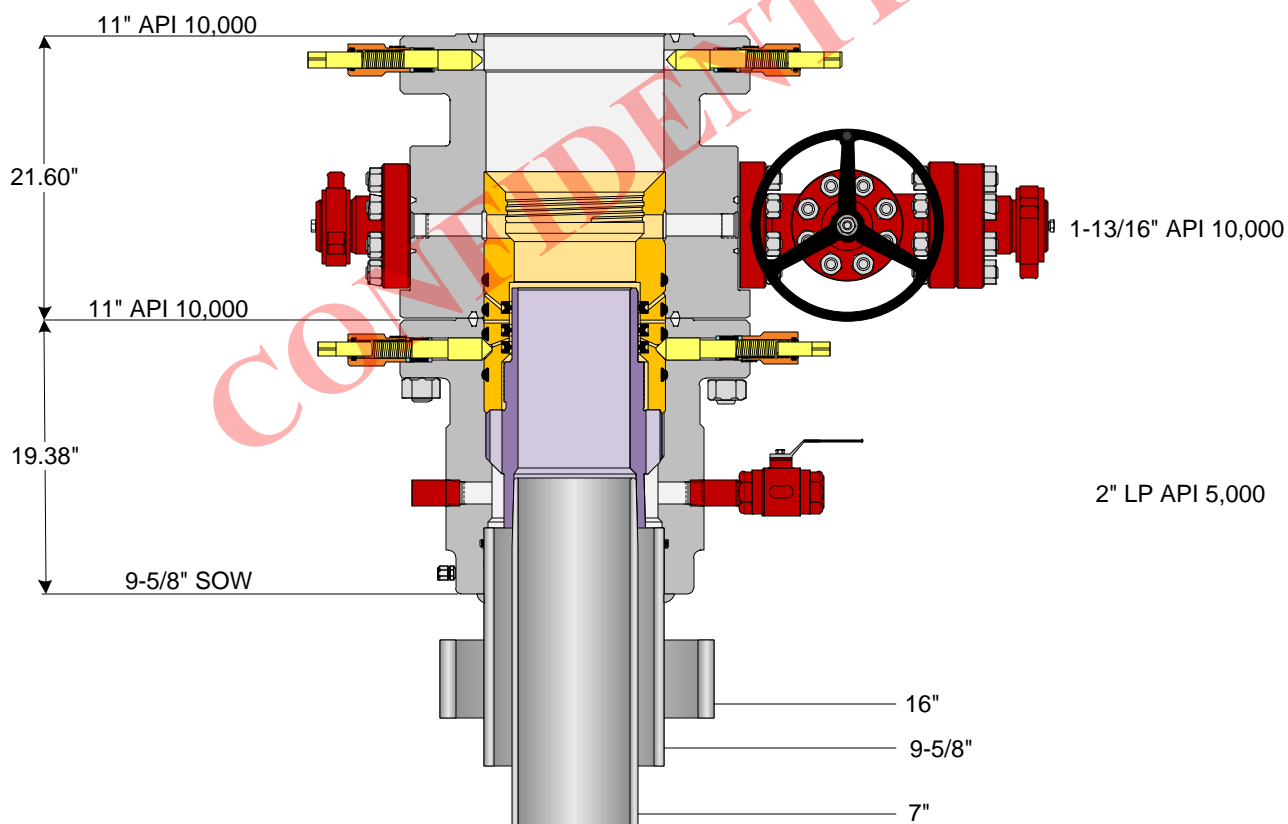
Date: 02-24-2013

Drawn By: RL

RECEIVED: August 21, 2013

NOTE: THIS DRAWING IS NOT TO SCALE. THE DIMENSIONS REFLECTED ON THIS DRAWING ARE ESTIMATED DIMENSIONS AND ARE FOR REFERENCE ONLY.

WFT-SBD SYSTEM DRILLING PHASE

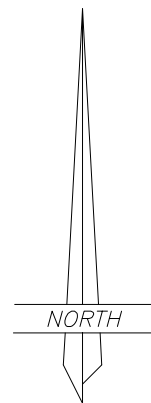
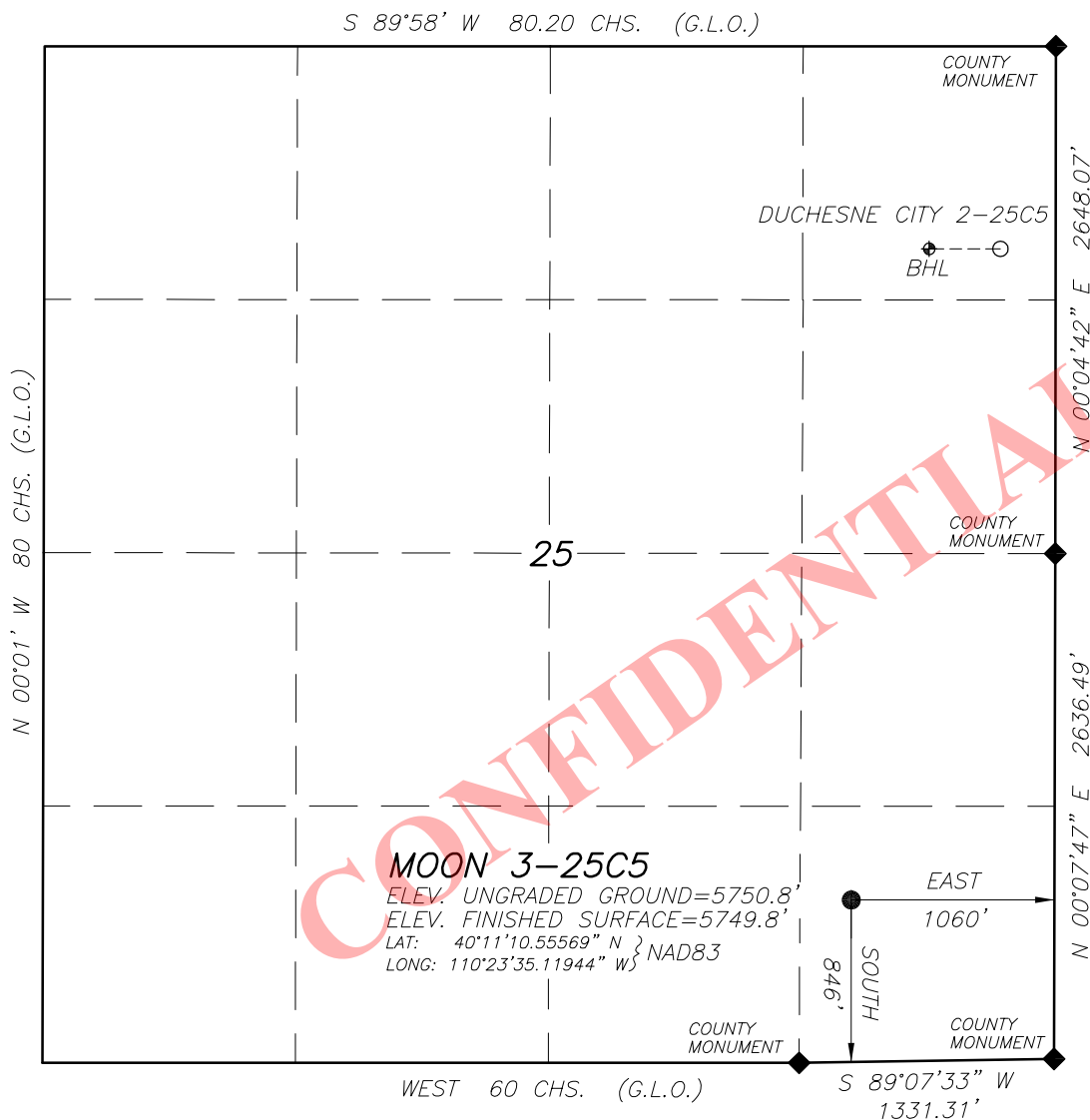


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Customer: EP ENERGY	Project No.: 75666	Quote No.: 161479
Project Name: UTAH PROJECT – 11 IN WFT-SBD SYSTEM	Date: 02-23-2013	Drawn By: RL

RECEIVED: August 21, 2013

EP ENERGY E & P COMPANY, L.P.**WELL LOCATION****MOON 3-25C5**LOCATED IN THE SE¼ OF THE SE¼ OF
SECTION 25, T3S, R5W, U.S.B.&M.
DUCHESNE COUNTY, UTAH

SCALE: 1"=1000'



NOTE:
NAD27 VALUES FOR
WELL POSITION:
LAT: 40.18630793° N
LONG: 110.3923779° W

LEGEND AND NOTES

- ◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY

THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP

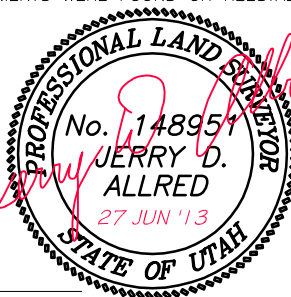
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THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT THE SECTION CORNER LOCATED AT LAT. 40°15'22.90258" N AND LONG. 110°23'21.19760" W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

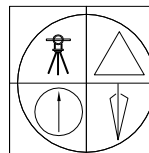
BASIS OF ELEVATIONS: NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK CONTROL SYSTEM

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM THE FIELD NOTES AND ELECTRONIC DATA COLLECTOR FILES OF AN ACTUAL SURVEY PERFORMED BY ME, OR UNDER MY PERSONAL SUPERVISION, DURING WHICH THE SHOWN MONUMENTS WERE FOUND OR REESTABLISHED.



JERRY D. ALLRED, PROFESSIONAL LAND SURVEYOR,
CERTIFICATE NO. 148951 (UTAH)

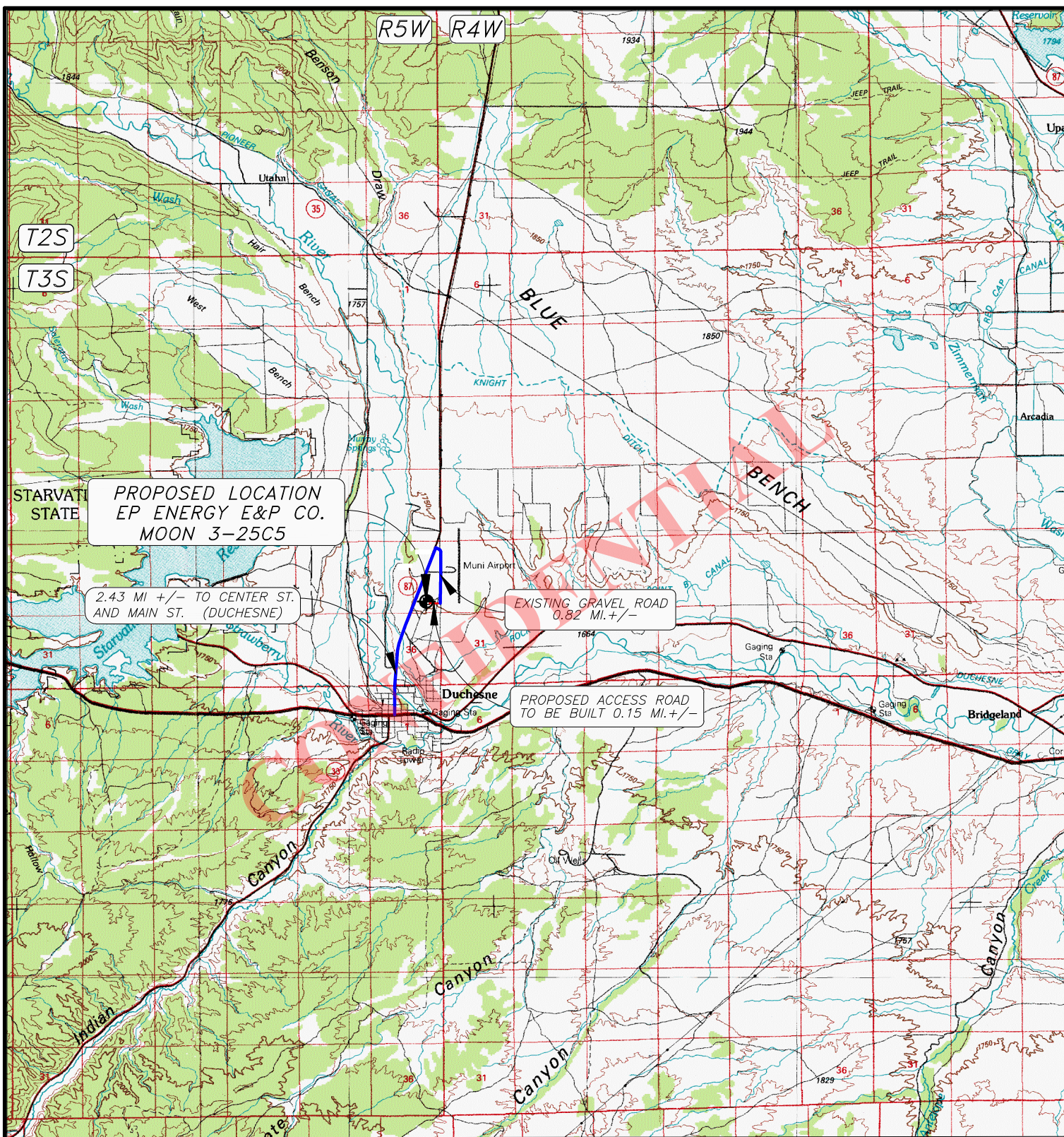


JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352

27 JUN 2013 01-128-401

RECEIVED: August 21, 2013



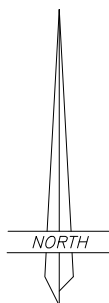
LEGEND:

 PROPOSED WELL LOCATION

01-128-401

JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975
DUCHEсне, UTAH 84021
(435) 738-5352



EP ENERGY E & P COMPANY, L.P.

MOON 3-25C5

SECTION 25, T3S, R5W, U.S.B.&M.

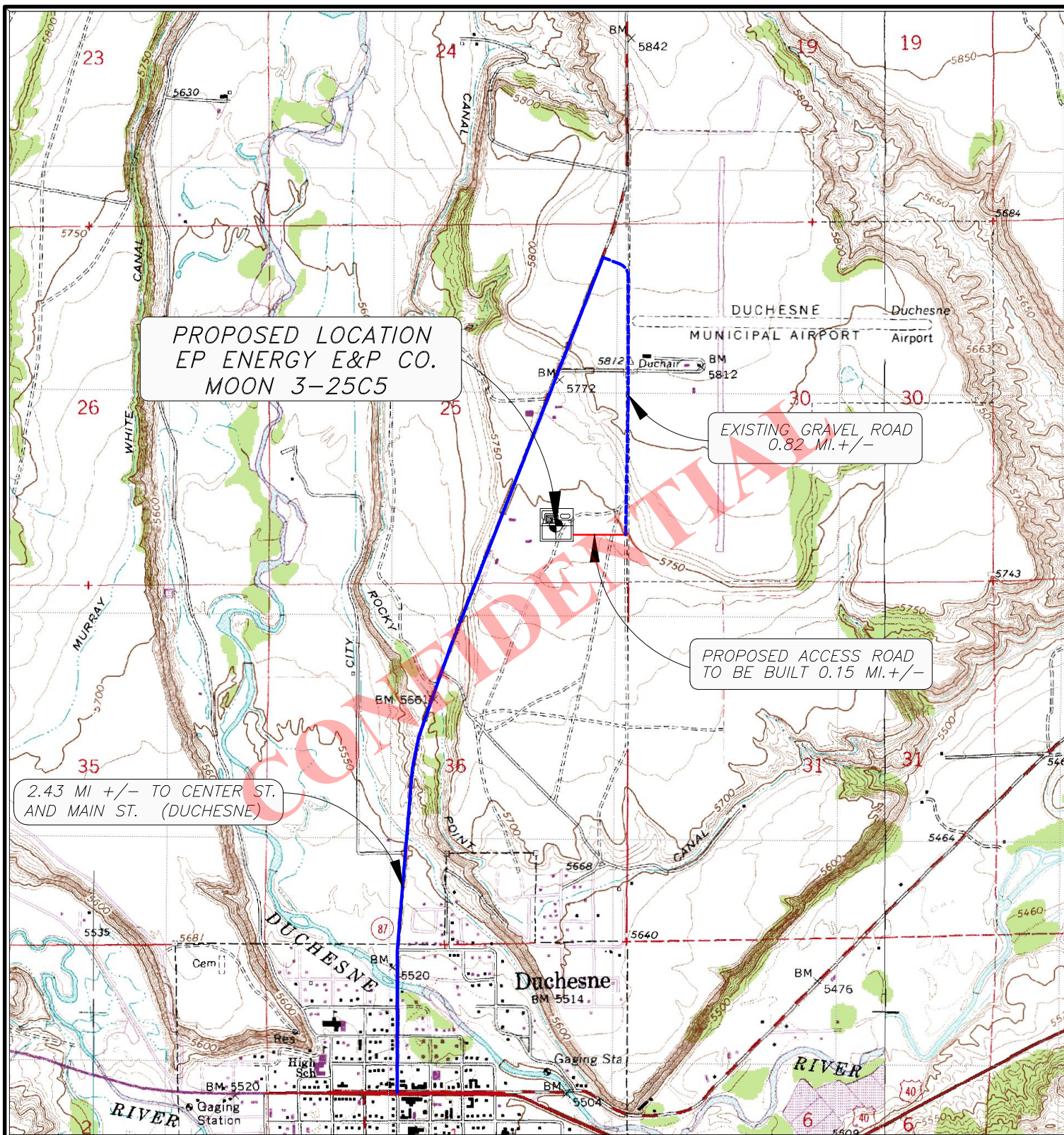
846' FSL 1060' FEL

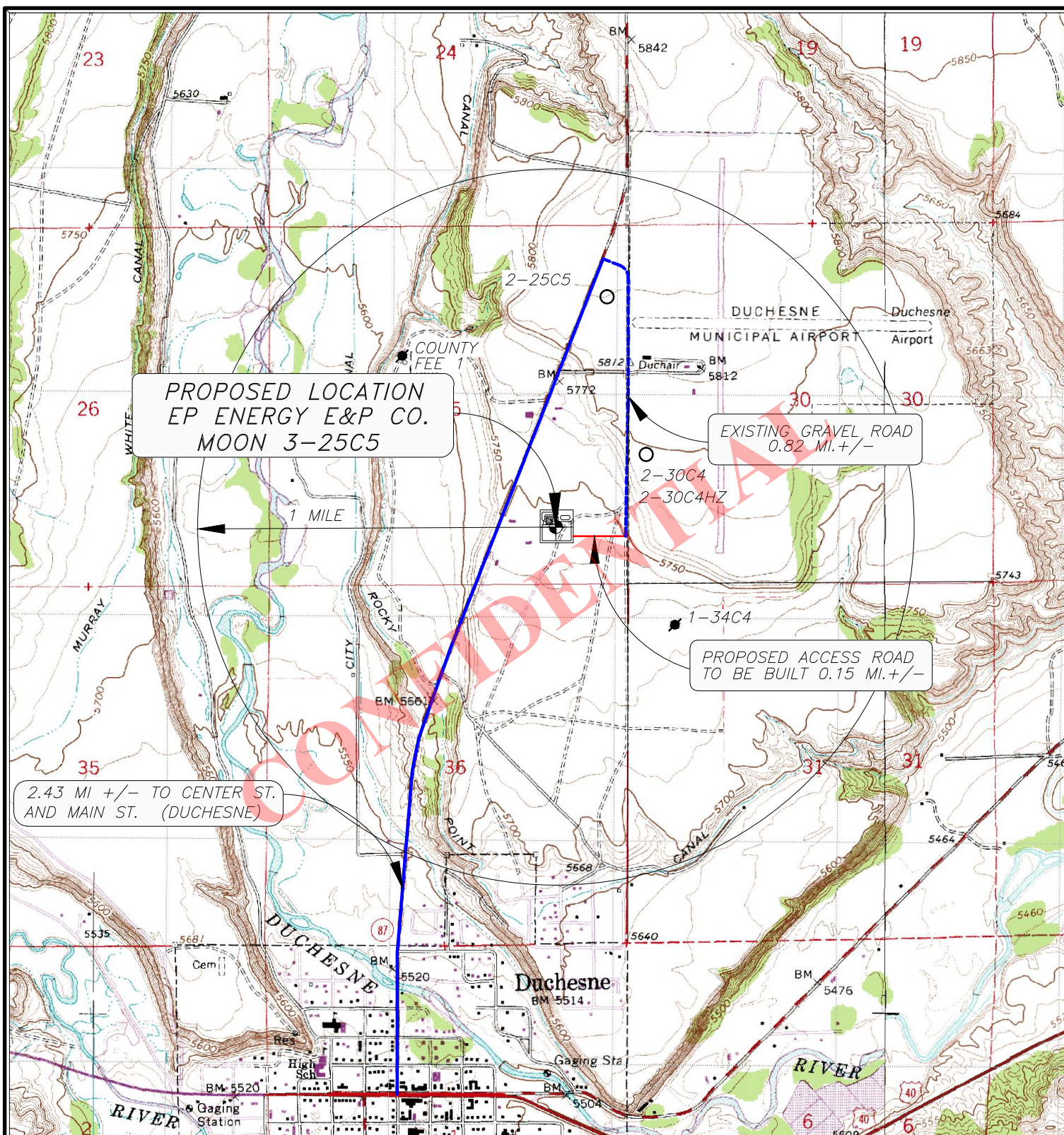
TOPOGRAPHIC MAP "A"

SCALE: 1"=10,000'




15 MAY 2013

RECEIVED: August 21, 2013

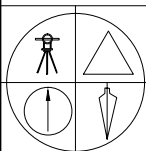




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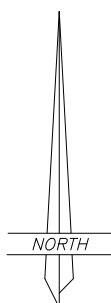
-  *PROPOSED WELL LOCATION*
 *OTHER WELLS AS LOCATED FROM SUPPLIED MAP*


01-128-401



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352



EP ENERGY E & P COMPANY, L.P.

MOON 3-25C5

SECTION 25, T3S, R5W, U.S.B.&M.

846' FSL 1060' FEL

TOPOGRAPHIC MAP "C"

SCALE: 1"=2000'

15 MAY 2013

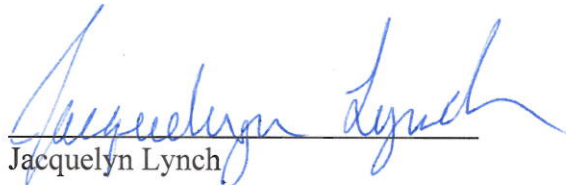
RECEIVED: August 21, 2013

AFFIDAVIT OF SURFACE DAMAGE AND RIGHT-OF-WAY AGREEMENTS

Jacquelyn Lynch personally appeared before me, and, being duly sworn, deposes and says:

1. My name is Jacquelyn Lynch. I am a Landman for EP Energy E&P Company, L.P., whose address is 1001 Louisiana St., Houston, Texas 77002 ("EP Energy").
2. EP Energy is the operator of the proposed Moon 3-25C5 well (the "Well") to be located in the SE/4SE/4 of Section 25, Township 3 South, Range 5 West, USM, Duchesne County, Utah (the "Drillsite Location"). The surface owner of the Drillsite Location is Moon Land & Livestock Limited Partnership, whose address is PO Box 171, Duchesne, Utah 84021-0271 (the "Surface Owner"). Kenneth Alton Moon is the General Partner of the Surface Owner his telephone number is (435) 738-2526.
3. EP Energy and the Surface Owner have entered into a Damage Settlement and Release Agreement dated August 1st, 2013, to cover any and all injuries or damages of every character and description sustained by the Surface Owner or Surface Owner's property as a result of operations associated with the drilling of the Well.
4. EP Energy and the Surface Owner have also entered into a Right-Of-Way Agreement dated August 1st, 2013, for an access road and pipeline corridor across the SE/4 SE/4 to intersect with 2100 West County Road on the east side of Section 25, Township 3 South, Range 5 West, USM, Duchesne County, Utah.

FURTHER AFFIANT SAYETH NOT.


Jacquelyn Lynch

ACKNOWLEDGMENT

STATE OF TEXAS §
 §
CITY AND COUNTY OF HARRIS §

Before me, a Notary Public, in and for this state, on this 15th day of August, 2013, personally appeared Jacquelyn Lynch, to me known to be the identical person who executed the within and foregoing instrument, and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.


NOTARY PUBLIC

My Commission Expires:



EP Energy E&P Company, L.P.

Related Surface Information

1. **Current Surface Use:**

- Livestock Grazing and Oil and Gas Production.

2. **Proposed Surface Disturbance:**

- The road will be crown and ditch. Water wings will be constructed on the access road as needed.
- The topsoil will be windrowed and re-spread in the borrow area.
- New road to be constructed will be approximately .15 miles in length and 66 feet wide.
- All equipment and vehicles will be confined to the access road, pad and area specified in the APD.

3. **Location Of Existing Wells:**

- Existing oil, gas wells within one (1) mile radius of proposed well are provided in EXHIBIT C.

4. **Location And Type Of Drilling Water Supply:**

- Drilling water: Duchesne City Water

5. **Existing/Proposed Facilities For Productive Well:**

- There are no existing facilities that will be utilized for this well.
- A pipeline corridor .15 miles will parallel the proposed access road. The corridor will contain one 4 inch gas line and one 2 inch gas line and one 2 inch Salt Water disposal line. Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area; backsloping and contouring all cut and fill slopes. These areas will be reseeded. Refer to plans for reclamation of surface for details.
- Upgrade and maintain access roads and drainage control structures (e.g., culverts, drainage dips, ditching, etc.) as necessary to prevent soil erosion and accommodate safe, year-round traffic.

6. **Construction Materials:**

- Native soil from road and location will be used for construction materials along with gravel and/or scoria road base material. In the event that conditions should necessitate graveling of all or part of the access road and location, surfacing materials will be purchased from commercial suppliers in the marketing area.

7. **Methods For Handling Waste Disposal:**

- The reserve pit will be designed to prevent the collection of surface runoff and will be constructed with a minimum of ½ the total depth below the original ground surface on the lowest point with the pit. The pit will be lined with a 20-mil polyethylene to prevent leakage of fluids. The liner will be rolled into place and secured at the ends, i.e. buried on top of the pit berms. Prior to use, the reserve pit will be fenced on three sides; the fourth side will be fenced at the time the rig is removed. Drilling fluids, cuttings and produced water will be contained in the reserve pit (trash will be placed in the trash cage). Fluids in the reserve pit will be allowed to evaporate prior to pit burial.
- Garbage and other trash will be contained in the portable trash cage and hauled off the location to an authorized disposal site. Any trash on the pad will be cleaned up prior to the rig moving off location and hauled to an authorized disposal site.
- Sewage will be handled in Portable Toilets.
- Produced water will be placed in the reserve pit for a period not to exceed ninety days after initial production. Any hydrocarbons produced during completion work will be contained in test tanks and removed from the location at a later date.
- Water from the reserve pit may be used for drilling of additional wells. The water will be trucked along access roads as approved in pertinent APD's

8. **Ancillary Facilities:**

- There will be no ancillary facilities associated with this project.

9. **Surface Reclamation Plans:**

Backfilling of the pits will be done when dry. In the event of a dry hole, the location will be re-contoured, the topsoil will be distributed evenly over the entire location, and the seedbed prepared.

- Seed will be planted after September 15th, and prior to ground frost, or seed will be planted after the frost has left and before May 15th. Slopes to steep for machinery will be hand broadcast and raked with twice the specified amount of seed.
 1. The construction program and design are on the attached cut, fill and cross sectional diagrams.
 2. Prior to construction, all topsoil will be removed from the entire site and stockpiled. Topsoil for this site is the first 6 inches of soil materials.
 3. After the location has been reshaped and after redistributing the topsoil, the operator will rip and scarify the drilling platform and access road on the contour, to a depth of at least 12 inches.
- Rehabilitation will begin upon the completion of the drilling. Complete rehabilitation will depend on weather conditions and the amount of time required to dry the reserve pit.
 1. All rehabilitation work including seeding will be completed as soon as weather and the reserve pit conditions are appropriate.
 2. Landowner will be contacted for rehabilitation requirements.

10. **Surface Ownership:**

Moon Land & Livestock Limited Partnerships
P.O. Box 171
Duchesne, Utah 84021-0271

Other Information:

- The surface soil consists of clay, and silt.
- Flora – vegetation consists of the following: Sagebrush, Juniper and prairie grasses.
- Fauna – antelope, deer, coyotes, raptors, small mammals, and domestic grazing animals.
- Current surface uses – Livestock grazing and mineral exploration and production.

• **Operator and Contact Persons:**

Construction and Reclamation:

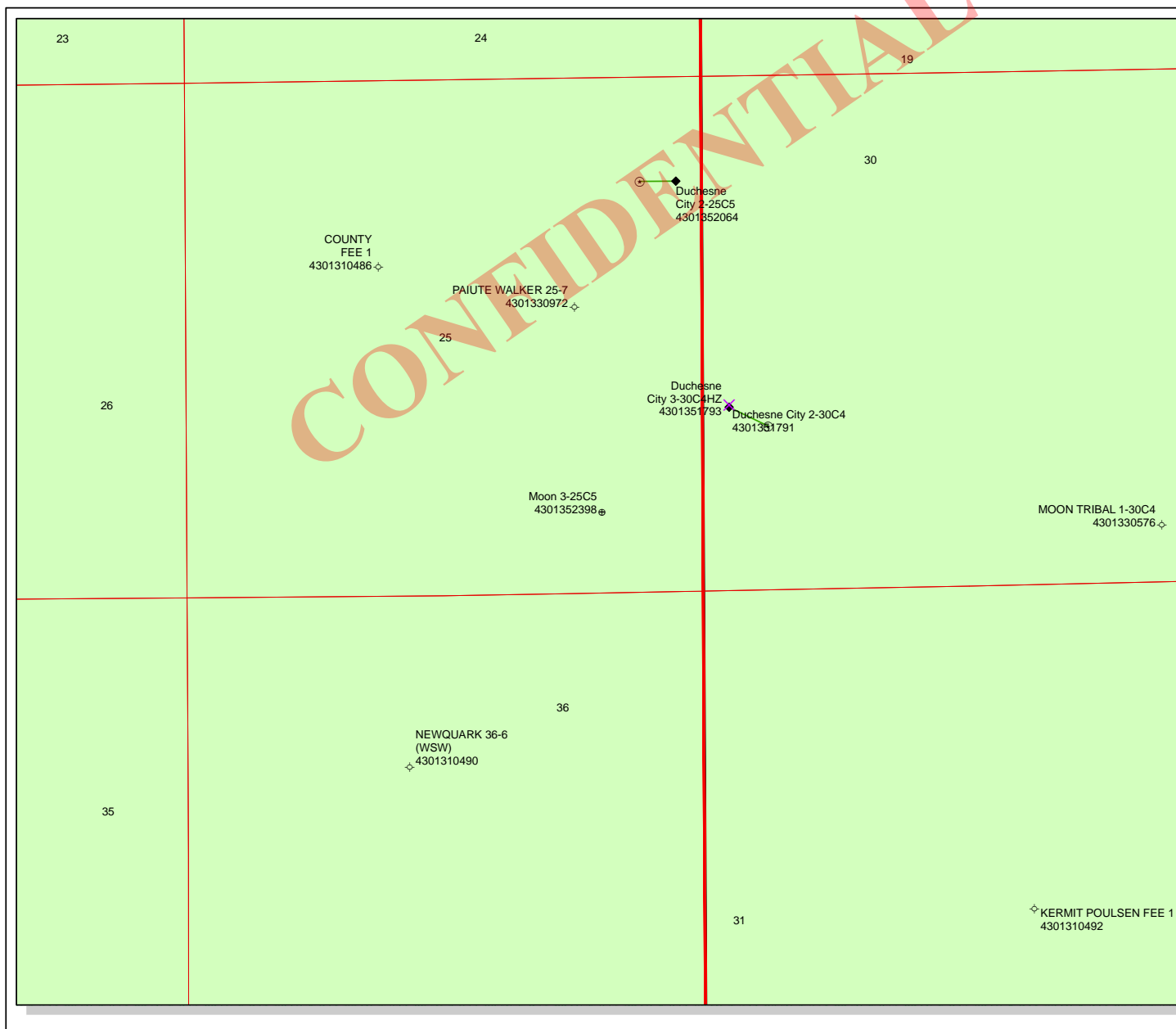
EP Energy E&P Company, L.P.
Wayne Garner
PO Box 410
Altamont, Utah 84001
435-454-3394 – Office
435-823-1490 – Cell

Regarding This APD

EP Energy E&P Company, L.P.
Maria S. Gomez
1001 Louisiana, Rm 2730D
Houston, Texas 77002
713-997-5038 – Office

Drilling

EP Energy E&P Company, L.P.
Brad MacAfee – Drilling Engineer
1001 Louisiana, Rm 2660D
Houston, Texas 77002
713-997-6383 – office
281-813-0902 – Cell



API Number: 4301352398

Well Name: Moon 3-25C5

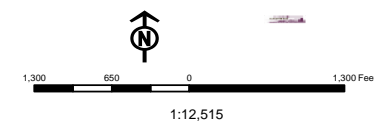
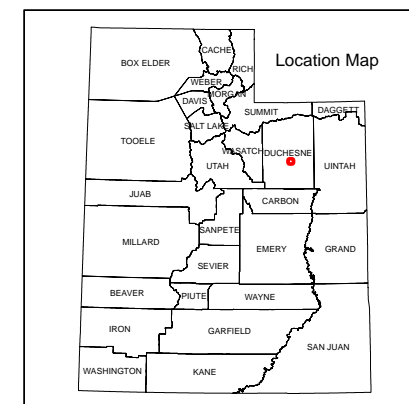
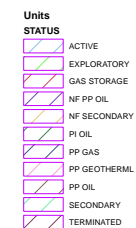
Township T03.0S Range R05.0W Section 25

Meridian: UBM

Operator: EP ENERGY E&P COMPANY, L.P.

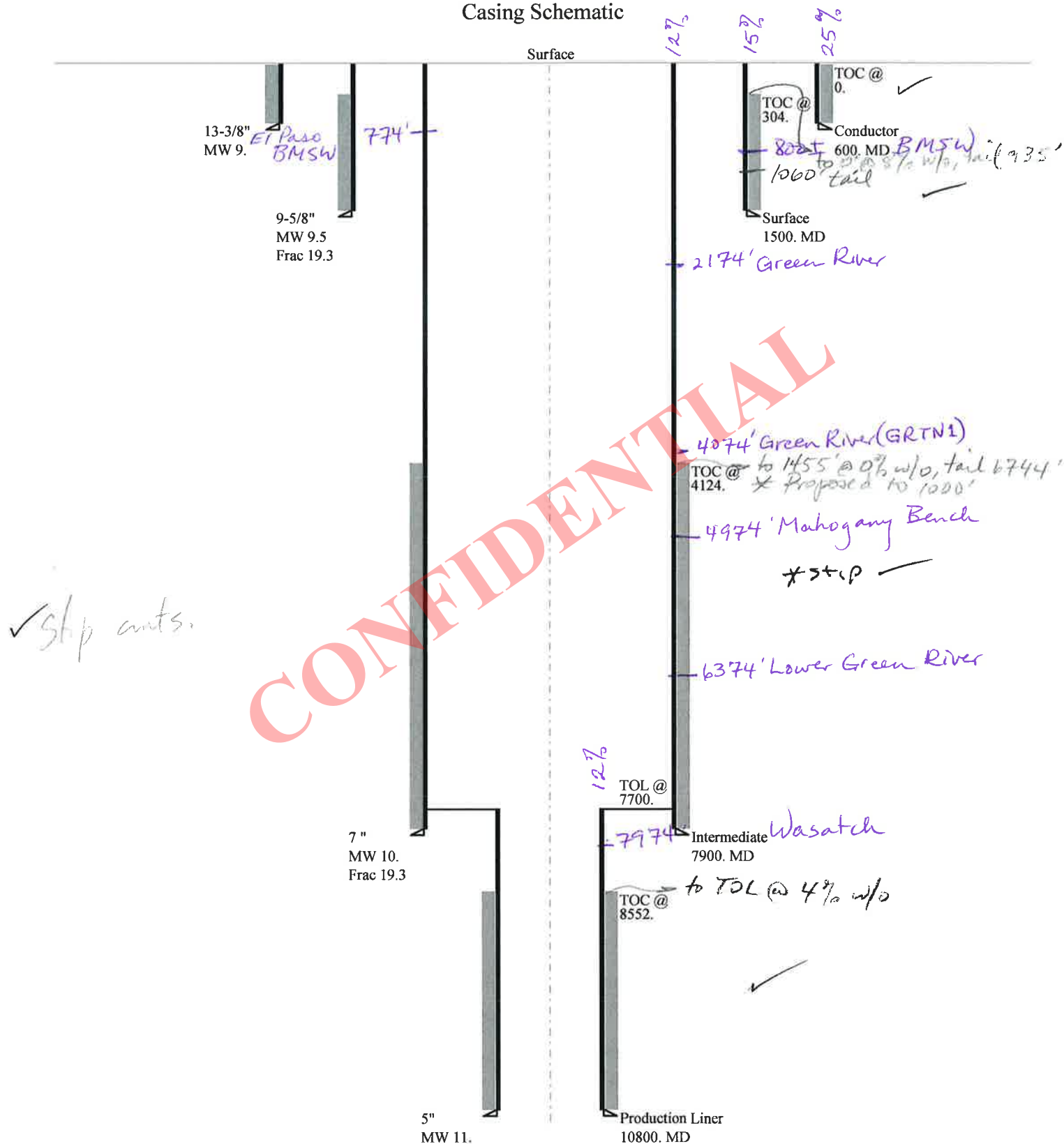
Map Prepared:

Map Produced by Diana Mason



43013523980000 Moon 3-25C5

Casing Schematic



Well name:	43013523980000 Moon 3-25C5	
Operator:	EP ENERGY E&P COMPANY, L.P.	
String type:	Conductor	Project ID: 43-013-52398
Location:	DUCHESE COUNTY	

Design parameters:**Collapse**

Mud weight: 9.000 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 82 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Burst:

Design factor 1.00

Cement top: Surface

Burst

Max anticipated surface pressure: 208 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 280 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Non-directional string.

Tension is based on air weight.
Neutral point: 520 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	600	13.375	54.50	J-55	ST&C	600	600	12.49	7442
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	280	1130	4.030	280	2730	9.74	32.7	514	15.72 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: November 19, 2013
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 600 ft, a mud weight of 9 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43013523980000 Moon 3-25C5		
Operator:	EP ENERGY E&P COMPANY, L.P.		
String type:	Surface	Project ID:	43-013-52398
Location:	DUCHESNE COUNTY		

Design parameters:**Collapse**

Mud weight: 9.500 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 95 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 304 ft

Burst

Max anticipated surface pressure: 1,170 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 1,500 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 1,288 ft

Non-directional string.**Re subsequent strings:**

Next setting depth: 7,900 ft
Next mud weight: 10.000 ppg
Next setting BHP: 4,104 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 1,500 ft
Injection pressure: 1,500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	1500	9.625	40.00	N-80	LT&C	1500	1500	8.75	19087
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	740	3090	4.174	1500	5750	3.83	60	737	12.28 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: November 19, 2013
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 1500 ft, a mud weight of 9.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43013523980000 Moon 3-25C5	
Operator:	EP ENERGY E&P COMPANY, L.P.	
String type:	Intermediate	Project ID: 43-013-52398
Location:	DUCHESNE COUNTY	

Design parameters:**Collapse**

Mud weight: 10.000 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 185 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 4,124 ft

Burst

Max anticipated surface pressure: 3,795 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 5,533 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on air weight.
Neutral point: 6,704 ft

Non-directional string.**Re subsequent strings:**

Next setting depth: 10,800 ft
Next mud weight: 11.000 ppg
Next setting BHP: 6,171 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 7,900 ft
Injection pressure: 7,900 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	7900	7	29.00	HCP-110	LT&C	7900	7900	6.059	89212
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	4104	9200	2.242	5533	11220	2.03	229.1	797	3.48 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: November 19, 2013
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 7900 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43013523980000 Moon 3-25C5	
Operator:	EP ENERGY E&P COMPANY, L.P.	
String type:	Production Liner	Project ID: 43-013-52398
Location:	DUCHESNE COUNTY	

Design parameters:**Collapse**

Mud weight: 11.000 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 225 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 8,552 ft

Burst

Max anticipated surface pressure: 3,795 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 6,171 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on air weight.
Neutral point: 10,281 ft

Liner top: 7,700 ft

Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	3100	5	18.00	P-110	ST-L	10800	10800	4.151	26884
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	6171	13470	2.183	6171	13940	2.26	55.8	384	6.88 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: November 19, 2013
Salt Lake City, Utah

Remarks:

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 10800 ft, a mud weight of 11 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well Name	EP ENERGY E&P COMPANY, L.P. Moon 3-25C5 43013523980000			
String	Cond	Surf	I1	L1
Casing Size(in)	13.375	9.625	7.000	5.000
Setting Depth (TVD)	600	1500	7900	12600
Previous Shoe Setting Depth (TVD)	0	600	1500	7900
Max Mud Weight (ppg)	8.8	9.5	10.0	12.5
BOPE Proposed (psi)	1000	1000	5000	10000
Casing Internal Yield (psi)	2730	5750	11220	13940
Operators Max Anticipated Pressure (psi)	6178			9.4

Calculations	Cond String	13.375	"
Max BHP (psi)	.052*Setting Depth*MW=	275	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	203	YES rotating head on structural pipe
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	143	YES
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	143	NO
Required Casing/BOPE Test Pressure=		600	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

Calculations	Surf String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	741	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	561	YES 4.5
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	411	YES
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	543	YES
Required Casing/BOPE Test Pressure=		1500	psi
*Max Pressure Allowed @ Previous Casing Shoe=		600	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	4108	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3160	YES 5M BOPE, 5M kill lines & choke manifold
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2370	YES
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	2700	NO
Required Casing/BOPE Test Pressure=		7854	psi
*Max Pressure Allowed @ Previous Casing Shoe=		1500	psi *Assumes 1psi/ft frac gradient

Calculations	L1 String	5.000	"
Max BHP (psi)	.052*Setting Depth*MW=	8190	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	6678	YES 10M BOPE w/rotating head, 5M annular,
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	5418	YES blind rams & mud cross
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	7156	YES
Required Casing/BOPE Test Pressure=		9758	psi
*Max Pressure Allowed @ Previous Casing Shoe=		7900	psi *Assumes 1psi/ft frac gradient

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator EP ENERGY E&P COMPANY, L.P.
Well Name Moon 3-25C5
API Number 43013523980000 **APD No** 8470 **Field/Unit** ALTAMONT
Location: SESE **Sec** 25 **Tw** 3.0S **Rng** 5.0W 846 FSL 1060 FEL
1/4, 1/4
GPS Coord (UTM) **Surface Owner** Moon Land & Livestock Limited Partnership

Participants

Heather Ivie & Jarred Thacker (EP Energy); Dennis Ingram (Utah Division of Oil, Gas & Mining)

Regional/Local Setting & Topography

The Moon 3-25C5 is located in northeastern Utah approximately 2.43 miles north of Duchesne along Highway 87, then east and south for another 0.82 miles where the proposed access road will turn west for 0.15 miles into the location. Regionally, this well plots up immediately north of the town of Duchesne along the southwestern portion of Blue Bench, which is mostly flat, bench-like habitat that slopes gently to the south into the Duchesne River Drainage. The topography rises to the north into rocky shelf-like habitat that is commonly found on Black tail Mountain or the southern slopes of the Book Cliffs, then into more bench property that has scattered pinion juniper trees. Approximately 1.0 mile to the west, the topography drops off Blue Bench into the Duchesne River corridor that drains south from the Uinta Mountains. The topography at the proposed location slopes to the south and shows a three foot drop in elevation across the width of the pad area. The old Brinkerhoff Drilling Company yard is immediately west of the proposed wellsite and a gravel pit or operation is located just east of the proposed access road.

Surface Use Plan

Current Surface Use

Industrial
Mining
Residential

**New Road
Miles**

0.15

Well Pad

Width 357 **Length** 425

Src Const Material

Onsite

Surface Formation

UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Sage brush, prickly pear cactus, bunch grass, shad scale habitat

Mule deer winter range potential, coyote, rabbit, prairie dog, smaller mammals, smaller song birds native to region, also owl, hawk and eagle potential

Soil Type and Characteristics

Tan to reddish in color, fine-grained sandy loam with some clays present

Erosion Issues N**Sedimentation Issues** N**Site Stability Issues** N**Drainage Diversion Required?** N**Berm Required?** Y**Erosion Sedimentation Control Required?** N**Paleo Survey Run?** N **Paleo Potential Observed?** N **Cultural Survey Run?** N **Cultural Resources?** N**Reserve Pit****Site-Specific Factors****Site Ranking**

Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	1320 to 5280	5
Distance to Other Wells (feet)	>1320	0
Native Soil Type	High permeability	20
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Unknown	10
Final Score	45	1 Sensitivity Level

Characteristics / Requirements

Reserve pit proposed on north side of location in cut, measuring 110' wide by 150' long by 12' deep, with prevailing winds from the west.

Closed Loop Mud Required? **Liner Required?** Y **Liner Thickness** 20 **Pit Underlayment Required?****Other Observations / Comments**

Duchesne City Water tap and gravel pit operations immediately east of location, no drainage issues,

Dennis Ingram
Evaluator11/6/2013
Date / Time

Application for Permit to Drill

Statement of Basis

Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
8470	43013523980000	LOCKED	OW	P	No
Operator	EP ENERGY E&P COMPANY, L.P.		Surface Owner-APD	Moon Land & Livestock Limited Partnership	
Well Name	Moon 3-25C5		Unit		
Field	ALTAMONT		Type of Work	DRILL	
Location	SESE 25 3S 5W U 846 FSL 1060 FEL GPS Coord (UTM) 551673E 4448605N				

Geologic Statement of Basis

E P proposes to set 600 feet of conductor and 1,500 feet of surface casing both of which will be cemented to surface. The surface and intermediate holes will be drilled utilizing fresh water mud. The estimated depth to the base of moderately saline ground water is 800 feet. A search of Division of Water Rights records indicates that there are 21 water wells within a 10,000 foot radius of the center of Section 25. These wells probably produce water from the Uinta Formation and associated alluvium. Depths of the wells fall in the range of 29-500 feet. Depth is not listed for one well. The wells are listed as being used for irrigation, stock watering, municipal and domestic. The proposed drilling, casing and cement program should adequately protect the usable ground water in this area.

Brad Hill
APD Evaluator

11/26/2013
Date / Time

Surface Statement of Basis

The surface at the proposed well site slopes gently toward the south, having a three foot drop from the northern corners to the south. The reserve pit is proposed along the north side of the well pad, in cut with fine-grained sandy soils. There is a Duchesne City Water Tap just southeast of this proposed well pad. Therefore, the operator shall install and maintain a 20 mil or thicker synthetic liner in the reserve pit. The location shall be bermed to prevent fluids from leaving the well site. There aren't any drainage issues found that will impact the surface construction of this location. This wellsite is getting close to town, and because of safety issues and children the operator should fence the public out.

A presite was scheduled and performed for the Moon 3-25C5 on November 6, 2013 to address issues regarding the construction and drilling of this well. Ken Moon is shown as the landowner of record and was therefore invited to the presite but did not attend. EP Energy and Mr. Moon have entered into a surface damage agreement.

Dennis Ingram
Onsite Evaluator

11/6/2013
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 20 mils shall be properly installed and maintained in the reserve pit.
Pits	The reserve pit should be located on the north side of the location.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.

API Well Number: 43013523980000

Surface Location shall be fenced for public safety purposes.

CONFIDENTIAL

RECEIVED: December 09, 2013

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 8/21/2013

API NO. ASSIGNED: 43013523980000

WELL NAME: Moon 3-25C5

OPERATOR: EP ENERGY E&P COMPANY, L.P. (N3850)

PHONE NUMBER: 713 997-5038

CONTACT: Maria S. Gomez

PROPOSED LOCATION: SESE 25 030S 050W

Permit Tech Review: ☒

SURFACE: 0846 FSL 1060 FEL

Engineering Review: ☒

BOTTOM: 0846 FSL 1060 FEL

Geology Review: ☒

COUNTY: DUCHESNE

LATITUDE: 40.18624

LONGITUDE: -110.39299

UTM SURF EASTINGS: 551673.00

NORTHINGS: 4448605.00

FIELD NAME: ALTAMONT

LEASE TYPE: 4 - Fee

LEASE NUMBER: Fee

PROPOSED PRODUCING FORMATION(S): GREEN RIVER(LWR)-WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: STATE/FEE - 400JU0708☐ Potash☐ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: Duchesne City☐ RDCC Review:☒ Fee Surface Agreement☐ Intent to Commingle

Commingle Approved

LOCATION AND SITING:

☐ R649-2-3.

Unit:

☐ R649-3-2. General☐ R649-3-3. Exception☒ Drilling Unit

Board Cause No: Cause 139-85

Effective Date: 3/11/2010

Siting: (4) Prod LGRRV-WSTC Wells

☐ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill
8 - Cement to Surface -- 2 strings - hmacdonald
12 - Cement Volume (3) - hmacdonald

RECEIVED: December 09, 2013



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Moon 3-25C5

API Well Number: 43013523980000

Lease Number: Fee

Surface Owner: FEE (PRIVATE)

Approval Date: 12/9/2013

Issued to:

EP ENERGY E&P COMPANY, L.P., 1001 Louisiana, Houston, TX 77002

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-85. The expected producing formation or pool is the GREEN RIVER(LWR)-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

Cement volumes for the 13 3/8" and 9 5/8" casing strings shall be determined from actual hole diameters in order to place cement from the pipe setting depths back to the surface.

Cement volume for the 7" intermediate string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 1000' MD as indicated in the submitted drilling plan.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
- contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

Approved By:

A handwritten signature in black ink, appearing to read "J. Rogers", written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002		8. WELL NAME and NUMBER: Moon 3-25C5
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0846 FSL 1060 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 25 Township: 03.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013523980000
PHONE NUMBER: 713 997-5038 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 12/13/2014	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 EP would like to extend this permit. On schedule for 2015. Drilling changes will be on separate sundry. A sundry was submitted 11/17/13 to extend and change to directional. Not processed so this time will submit change to directional on a separate sundry. Thanks,

Approved by the
 January 15, 2015
 Oil, Gas and Mining

Date: _____

By:

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 1/15/2015	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43013523980000

API: 43013523980000

Well Name: Moon 3-25C5

Location: 0846 FSL 1060 FEL QTR SESE SEC 25 TWP 030S RNG 050W MER U

Company Permit Issued to: EP ENERGY E&P COMPANY, L.P.

Date Original Permit Issued: 12/9/2013

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Maria S. Gomez

Date: 1/15/2015

Title: Principal Regulatory Analyst **Representing:** EP ENERGY E&P COMPANY, L.P.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: Moon 3-25C5	
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		9. API NUMBER: 43013523980000
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0865 FSL 1025 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 25 Township: 03.0S Range: 05.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 2/10/2015	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This well is now planned directional. The surface had to move. Please see attached for details.

Approved by the
 Feb 09, 2015
 Oil, Gas and Mining

Date: _____

By: Derek Duff

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A		DATE 2/5/2015

**Moon 3-25C5
Sec. 25, T3S, R5W
DUCHESNE COUNTY, UT**

EP ENERGY E&P COMPANY, L.P.

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers

<u>Formation</u>	<u>Depth</u>
Green River (GRRV)	3,274' TVD
Green River (GRTN1)	3,968' TVD
Mahogany Bench	4,815' TVD
L. Green River	6,119' TVD
Wasatch	7,974' TVD
T.D. (Permit)	10,800' TVD / +/- 10,828' MD

2. Estimated Depths of Anticipated Water, Oil, Gas or Mineral Formations:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River (GRRV)	3,281' MD / 3,274' TVD
	Green River (GRTN1)	3,980' MD / 3,968' TVD
	Mahogany Bench	4,834' MD / 4,815' TVD
Oil	L. Green River	6,146' MD / 6,119' TVD
Oil	Wasatch	8,002' MD / 7,974' TVD

3. Pressure Control Equipment: (Schematic Attached)

A Diverter System on structural pipe from surface to 600' MD/TVD. A Diverter System from 600' MD/TVD to 2,000' MD/TVD. A 10M BOP stack w/ rotating head, 5M annular, flex rams, blinds rams, mud cross & single w/ flex ram used from 2,000' MD/TVD to 8,078' MD / 8,050' TVD. A 10M BOP stack w/ rotating head, 5M annular, flex rams, blinds rams, mud cross & single w/ flex ram from 8,078' MD / 8,050' TVD to TD (10,828' MD / 10,800' TVD).

The BOPE and related equipment will meet the requirements of the 5M and 10M system.

We have pre-set our 9-5/8" casing numerous wells around the proposed location with no issues.

There is 1 SWD well within 3.0 miles of the proposed location but none of them are within 0.5 miles. No pressure communication is expected to be seen, however it is important to be aware of them.

The Blue Bench 1-13C5 SWD is 14,174' or 2.68 miles to the North of the proposed location. It is owned by Intercept Energy & is an active SWD well. It is injecting into the Upper/Middle Green River & Upper-most Lower Green River. The injection interval is from 4106'-7528'. The injection rate is now ~500 bbls/day @ 500-600 psi (I just got off the phone with Keith who is with Intercept Energy). The pressure dissipates to 300 psi while down on maintenance. Using 300 psi, the EMW @ 4106' is 10.01 ppg. We should not see any pressure from this well since it is Due North of the proposed location & 2.68 miles away. We have drilled as close as 0.98 miles to this SWD well (that well is between the SWD & this proposed location) & **on fracture orientation** and have not seen any pressure while drilling. If any pressure communication is seen, we can easily weight up to 10.1 ppg MW to control the wellbore. Our intermediate cement design will be 12.5 ppg lead & 13 ppg tail, with a weighted spacer.

OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:

The surface casing will be equipped with a flanged casing head of 5M psi working pressure. An 11" 5M x 11" 10M spool, 11" x 10M psi BOP and 5M psi annular will be nipped up on the surface casing and tested to 250 psi low test / 3,000 psi high test for 10 minutes each prior to drilling out. The surface casing will be tested to 1,000 psi. for 30 mins. Intermediate casing will be tested to the greater of 1,500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly cock and floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low test / 4,000 psi high test. The 10M BOP will be installed with rotating head, 5M annular, flex rams, blinds rams, mud cross & single w/ flex ram from surface shoe to TD. The BOPE will be hydraulically operated.

In addition, the BOP equipment will be tested after running intermediate casing, after any repairs to the equipment and at least once every 30 days. Pipe and blind rams will be activated on each trip, annular preventer will be activated weekly and weekly BOP drills will be held with each crew.

Statement on Accumulator System and Location of Hydraulic Controls:

Patterson 307 is expected to be used to drill the proposed well. Operations will commence after approval of this application. Manual and/or hydraulic controls will be in compliance with 5M and 10M psi systems.

Auxiliary Equipment:

- A) Pason Gas Monitoring 2,000' - TD
- B) Mud logger with gas monitor – 2,000' to TD
- C) Choke manifold with one manual and one hydraulic operated choke
- D) Full opening floor valve with drill pipe thread
- E) Upper and lower Kelly cock
- F) Shaker, de-sander and centrifuge

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Wellbore Diagram.

All casing will meet or exceed the following design safety factors:

- Burst = 1.00
- Collapse = 1.125
- Tension = 1.2 (including 100k# overpull)

Cement design calculations for intermediate and production hole will be based on minimum 10% excess over gauge hole volumes. Actual volumes pumped will be a minimum of 10% excess over caliper volume to designed tops of cement for any section logged. A minimum of 50% excess over gauge volume will be pumped on surface casing.

5. **Drilling Fluids Program:**

Proposed Mud Program:

Interval	Type	Mud Weight
Surface	Air	Air
Intermediate	WBM	9.3 – 10.5
Production	WBM	11.0 – 12.0

Anticipated mud weights are based on actual offset well bottom-hole pressure data. Mud weights utilized may be somewhat higher to allow for trip margin and to provide hole stability for running logs and casing.

Visual mud monitoring equipment will be utilized.

6. **Evaluation Program:**

Logs:

Mud Log: 2,000' MD/TVD – TD

Open Hole Logs: Gamma Ray, Neutron-Density, Resistivity, Sonic, from surface casing shoe to TD.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 10,800' TVD equals approximately 6,739 psi. This is calculated based on a 0.624 psi/ft gradient (12.0 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 4,363 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 8,050' TVD = 6,440 psi

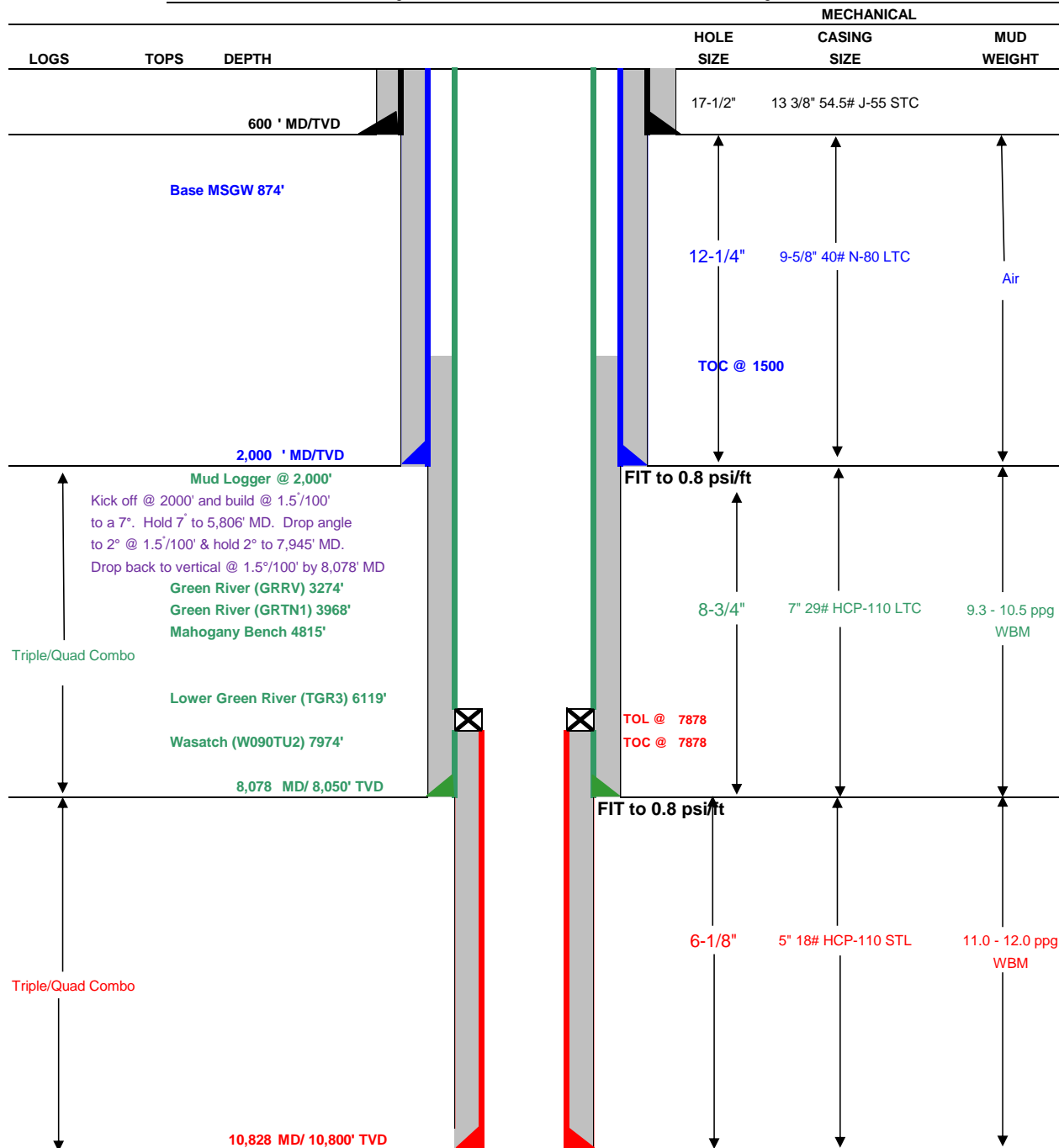
BOPE and casing design will be based on the lesser of the two MASPs which is 4,363 psi.

8. **OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.**



Drilling Schematic

Company Name: EP ENERGY	Date: February 9, 2015
Well Name: Moon 3-25C5	TD: 10,828
Field, County, State: Altamont, Duchesne, Utah	AFE #: TBD
Surface Location: Sec 25 T3S R5W 86S FSL 102S FEL	BHL: Sec 25 T3S R5W 750' FSL 1600' FEL
Objective Zone(s): Green River, Wasatch	Elevation: 5750
Rig: Patterson 307	Spud (est.): TBD
BOPE Info: Diverter Stack from 600' to 2,000'. 11 10M BOP stack w/ rotating head & 5M annular from 2,000' to 8,078'. 11 10M BOP stack w/ rotating head, 5M annular, flex rams, blind rams, mud cross & single w/ flex ram from 8,078' to TD	



DRILLING PROGRAM

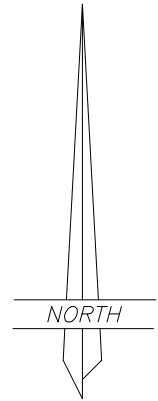
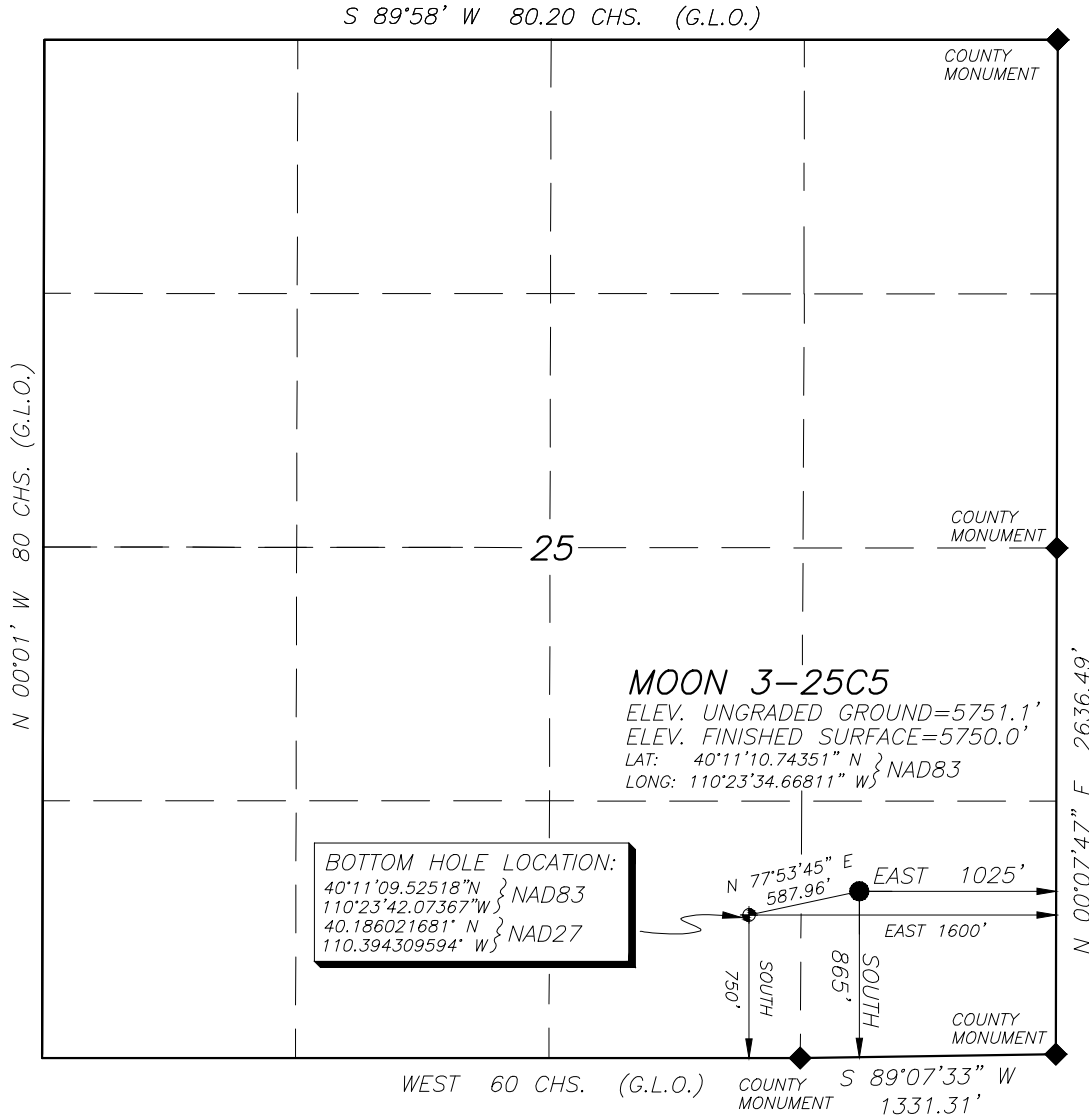
CASING PROGRAM	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	13 3/8"	0	600	54.5	J-55	STC	2,740	1,130	514
SURFACE	9-5/8"	0	2000	40.00	N-80	LTC	5,750	3,090	737
INTERMEDIATE	7"	0	8078	29.00	HCP-110	LTC	11,220	9,750	797
PRODUCTION LINER	5"	7878	10828	18.00	HCP-110	STL	13,940	15,450	341

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR		600	Class G + 3% CACL2	758	100%	15.8 ppg	1.15
SURFACE	Lead	1,500	EXTENDACEM SYSTEM: Type V Cement + 2% Cal-Seal + 0.35% Versaset + 0.3% D-Air 5000 + 6% Salt + 2% Econolite + 0.125 Poly-E-Flake	331	100%	12.0 ppg	2.36
	Tail	500	HALCEM SYSTEM: Class G Cement + 3 lbm/sk Silicalite Compacted + 1% Salt + 0.3% Econolite + 0.25 lbm/sk Poly-E-Flake + 0.25 lbm/sk Kwik Seal + 0.3% D-AIR 5000	195	50%	14.3 ppg	1.30
INTERMEDIATE	Lead	4,078	EXTENDACEM SYSTEM: Class G Cement + 6% Bentonite + 0.2% Econolite + 0.3% Versaset + 0.75% HR-5 + 0.3% Super CBL + 0.2% Halad-322 + 0.125 lb/sk Poly-E-Flake	421	35%	12.5 ppg	1.91
	Tail	2,500	EXPANDACEM SYSTEM: Class G Cement + 4% Bentonite + 0.25 Poly-E-Flake + 0.1% Halad-413 + 5 lb/sk Silicalite Compacted + 0.15% SA-1015 + 0.3% HR-5	304	30%	13.0 ppg	1.64
PRODUCTION LINER		2,950	EXTENDACEM SYSTEM: Class G Cement + 0.2% Super CBL + 0.3% Halad 344 + 0.3% Halad 413 + 5 lb/sk Silicalite + 20% SSA-1 + 2% Bentonite + 0.7% HR-5	170	25%	14.2 ppg	1.52

FLOAT EQUIPMENT & CENTRALIZERS	
CONDUCTOR	PDC drillable guide shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing.
SURFACE	PDC drillable guide shoe, 1 joint casing, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter.
INTERMEDIATE	Halliburton's PDC drillable 10M, P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Maker joint at +/- 6,100'.
LINER	Float shoe, 1 joint, float collar, 1 joint, landing collar. Thread lock all FE. Maker joints every 1000'.

PROJECT ENGINEER(S): Brad MacAfee 713-997-6383

MANAGER: Bob Dodd

EP ENERGY E & P COMPANY, L.P.**WELL LOCATION****MOON 3-25C5**LOCATED IN THE SE¼ OF THE SE¼ OF
SECTION 25, T3S, R5W, U.S.B.&M.
DUCHESNE COUNTY, UTAH

SCALE: 1" = 1000'



NOTE:
NAD27 VALUES FOR
WELL POSITION:
LAT: 40.18636010° N
LONG: 110.39225251° W

LEGEND AND NOTES

- ◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY

THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP

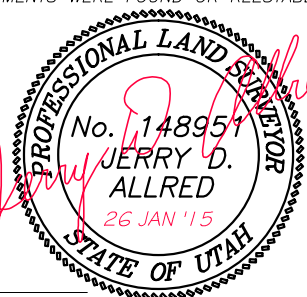
THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT THE SECTION CORNER LOCATED AT LAT. 40°15'22.90258"N AND LONG. 110°23'21.19760"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

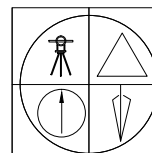
BASIS OF ELEVATIONS: NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK CONTROL SYSTEM

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM THE FIELD NOTES AND ELECTRONIC DATA COLLECTOR FILES OF AN ACTUAL SURVEY PERFORMED BY ME, OR UNDER MY PERSONAL SUPERVISION, DURING WHICH THE SHOWN MONUMENTS WERE FOUND OR REESTABLISHED.



JERRY D. ALLRED, PROFESSIONAL LAND SURVEYOR,
CERTIFICATE NO. 148951 (UTAH)



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352

REV 26 JAN 2015

REV 22 AUG 2013

27 JUN 2013

01-128-401

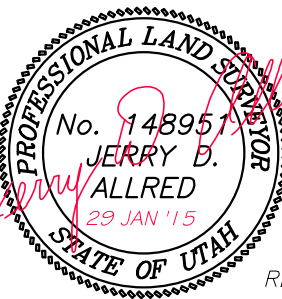
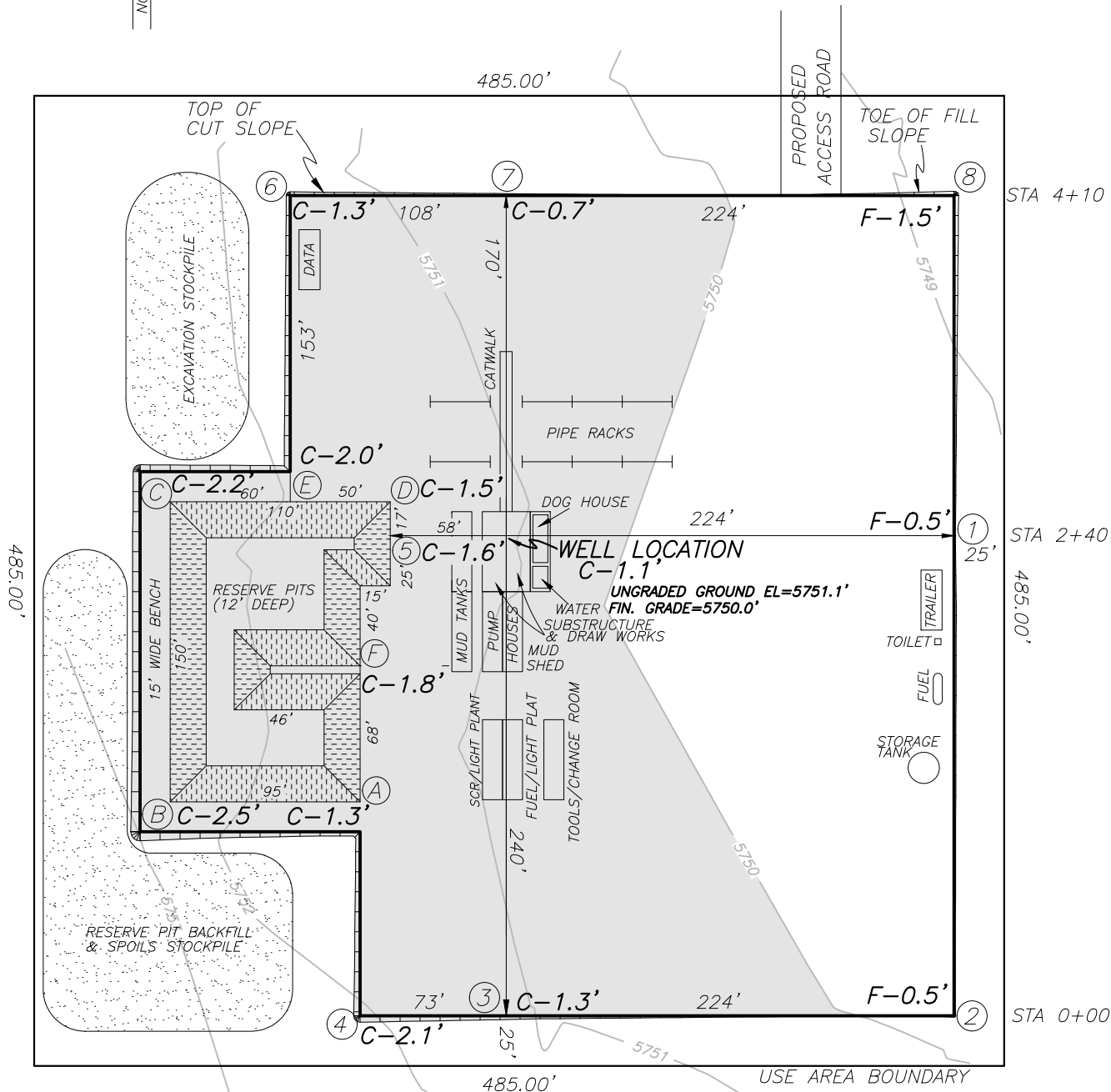
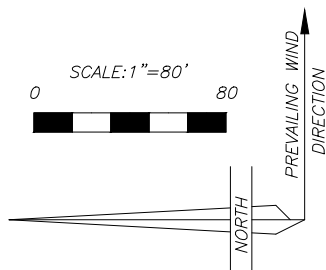
RECEIVED: Feb. 09, 2015

EP ENERGY E & P COMPANY, L.P.

FIGURE #1

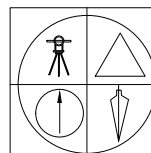
LOCATION LAYOUT FOR
MOON 3-25C5

SECTION 25, T3S, R5W, U.S.B.&M.
865' FSL, 1025' FEL



REV 29 JAN 2015
19 JUL 2013

01-128-401



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352

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EP ENERGY E & P COMPANY, L.P.**FIGURE #2**

LOCATION LAYOUT FOR

MOON 3-25C5

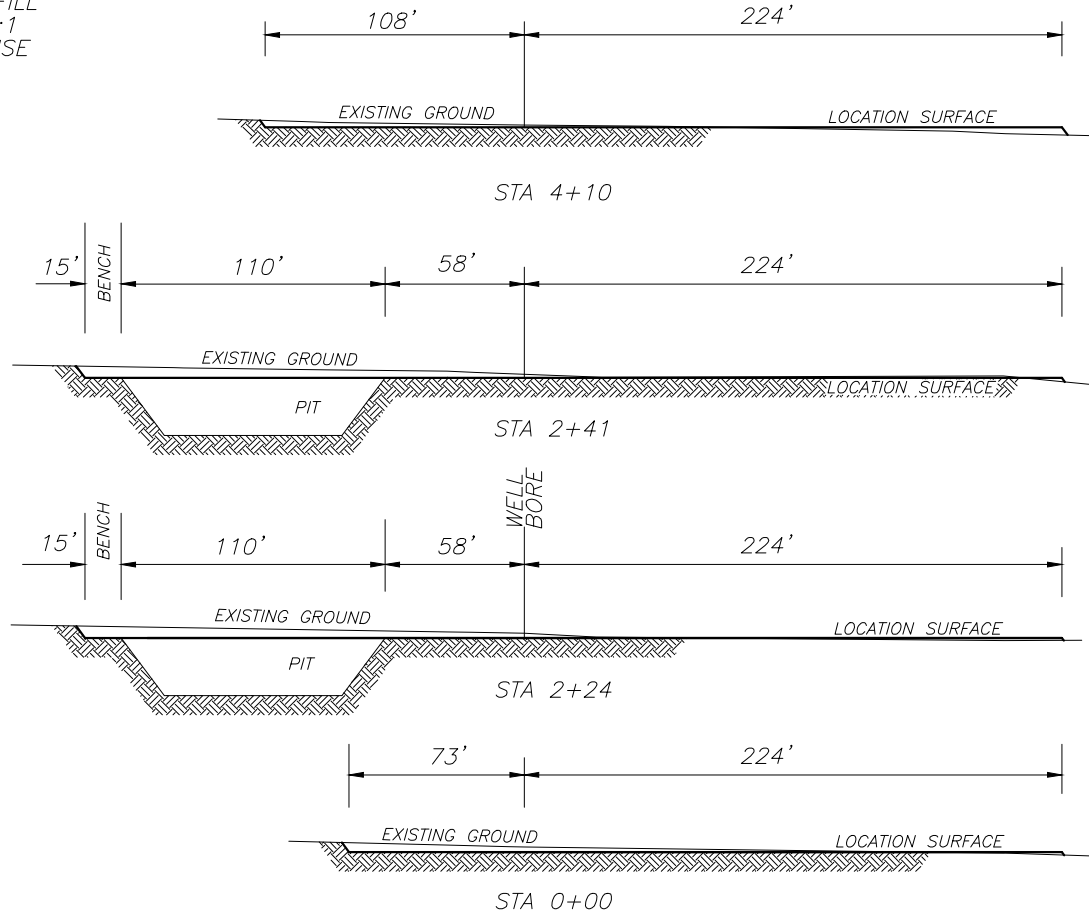
SECTION 25, T3S, R5W, U.S.B.&M.

865' FSL, 1025' FEL

1"=40'
X-SECTION
SCALE

1"=80'

NOTE: ALL CUT/FILL
SLOPES ARE 1½:1
UNLESS OTHERWISE
NOTED

APPROXIMATE QUANTITIES

TOTAL CUT (INCLUDING PIT) = 9260 CU. YDS.

PIT CUT = 4381 CU. YDS.

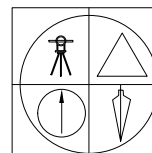
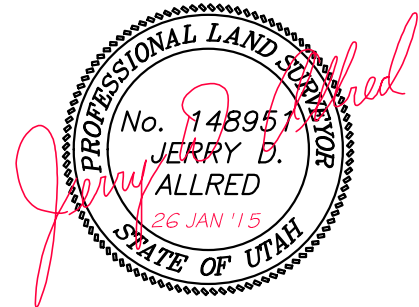
TOPSOIL STRIPPING: (6") = 2766 CU. YDS.

REMAINING LOCATION CUT = 2113 CU. YDS.

TOTAL FILL = 1625 CU. YDS.

LOCATION SURFACE GRAVEL=1546 CU. YDS. (4" DEEP)

ACCESS ROAD GRAVEL=208 CU. YDS.



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

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EP ENERGY E & P COMPANY, L.P.

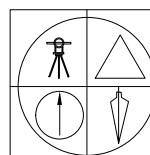
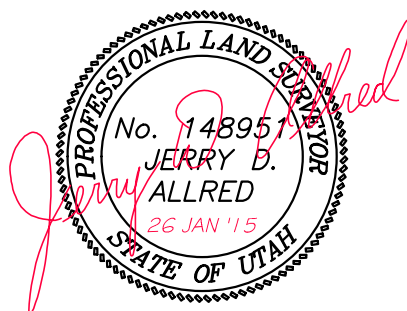
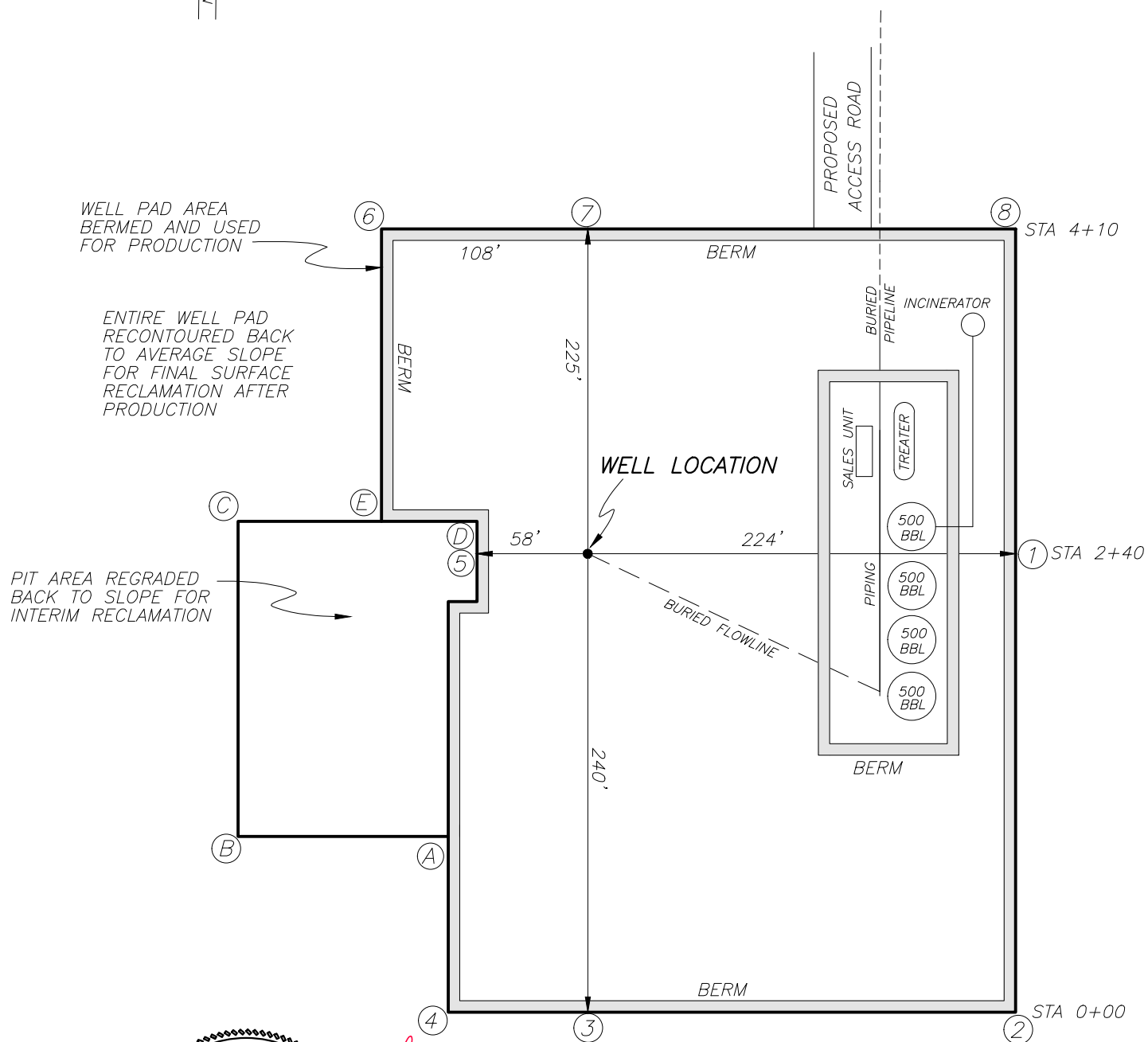
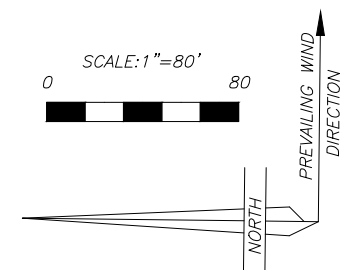
FIGURE #3

LOCATION LAYOUT FOR

MOON 3-25C5

SECTION 25, T3S, R5W, U.S.B.&M.

865' FSL, 1025' FEL



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352

REV 29 JAN 2015

19 JUL 2013

01-128-401

RECEIVED: Feb. 09, 2015

5D Plan Report

5D Plan Report

EP ENERGY

Field Name: *UTAH_ CENTRAL ZONE_NAD83*
Site Name: *MOON 3-25C5*
Well Name: *MOON 3-25C5*
Plan: *Working Plan*

03 February 2015





Field: UTAH_CENTRAL_ZONE_NAD83

Map Unit: USFt

Vertical Reference Datum (VRD):

Projected Coordinate System: NAD83 / Utah Central (ftUS)

Site: MOON 3-25C5

Unit: USFeet

TVD Reference:

Company Name: EP ENERGY

Position:

Northing: 7238505.50USft Latitude: 40°11'10.7"

Easting: 1949689.40USft Longitude: -110°23'34.7"

North Reference: True

Grid Convergence: 0.71°

Elevation Above VRD: 5750.00USft

Comment: DUCHESNE COUNTY, UT

Slot: MOON 3-25C5

Position:

Offset is from Site centre

+N/-S: 0.00USft Northing: 7238505.50USft Latitude: 40°11'10.7"

+E/-W: 0.00USft Easting: 1949689.40USft Longitude: -110°23'34.7"

Elevation Above VRD: 5750.00USft

Well: MOON 3-25C5

Type: Main-Well

File Number:

Vertical Section: Position offset of origin from Slot centre:

+N/-S: 0.00USft Azimuth: 274.90°

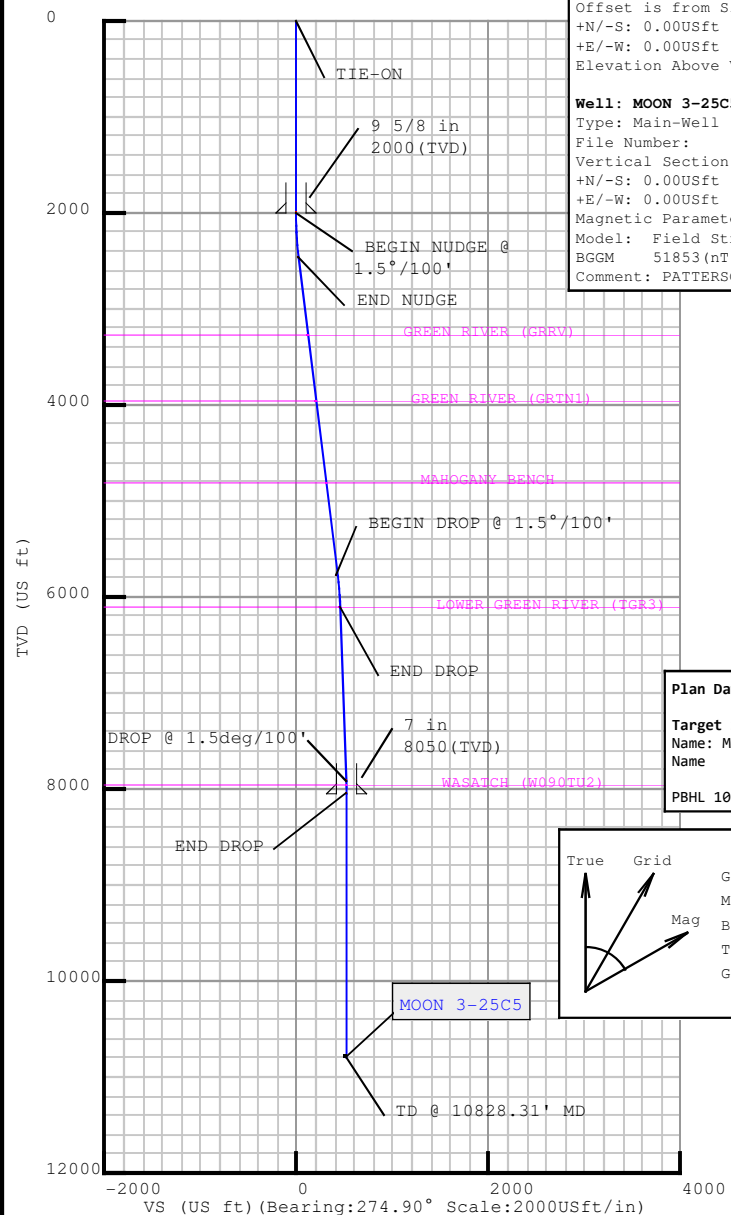
+E/-W: 0.00USft

Magnetic Parameters:

Model: Field Strength: Declination: Dip: Date:

BGGM 51853 (nT) 11.14° 65.74° 2015-02-03

Comment: PATTERSON 307 (RKB:24')



Plan Data for MOON 3-25C5

Casing Point Information:

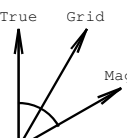
Name	MD (USft)	TVD (USft)
9 5/8 in	2000.00	2000.00
7 in	8078.31	8050.00

Plan Data for MOON 3-25C5

Target Set Information:

Name: MOON 3-25C5_Target

Name	TVD (USft)	Lat (°)	Long (°)
PBHL	10800.00	40.186441	-110.394843



Grid Convergence: 0.71°
 Mag Declination: 11.14°
 Bearing:
 True = Mag + 11.14°
 Grid = True - 0.71°

Plan Data for MOON 3-25C5

Formation Point Information:

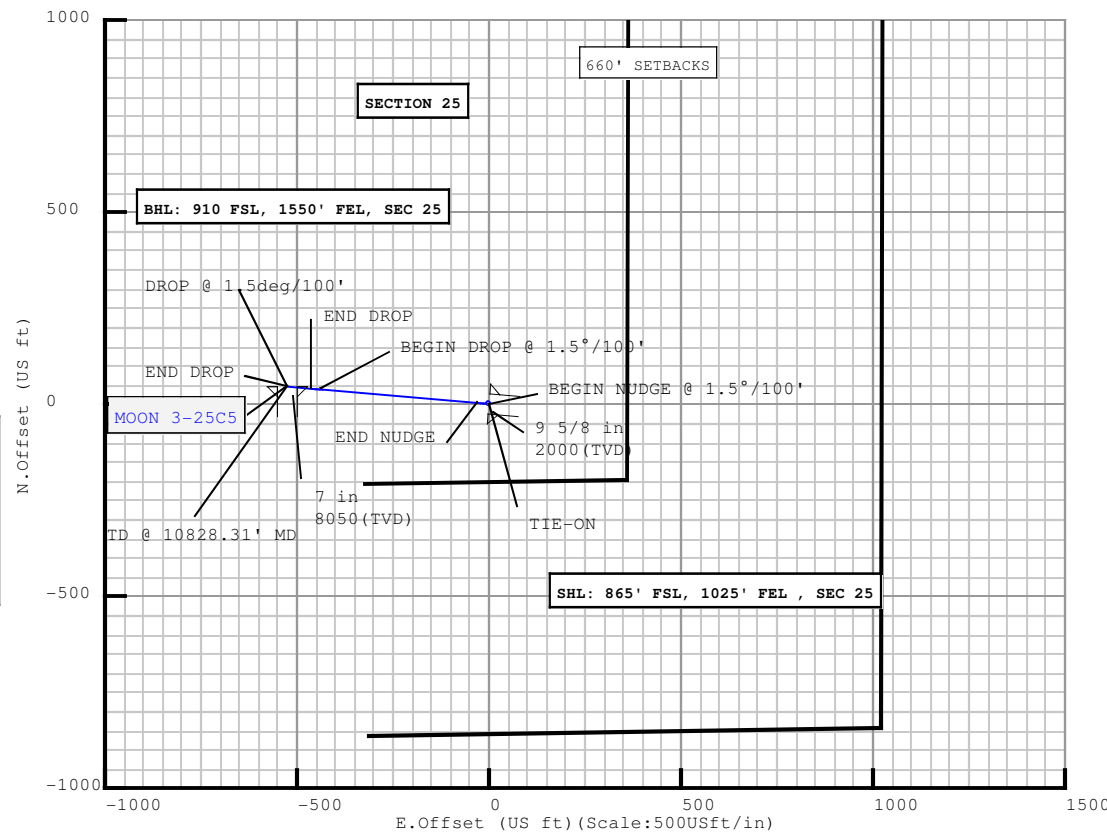
Name	TVD (USft)	Elevation (USft)	MD (USft)
GREEN RIVER (GRRV)	3274.00	2500.00	3281.23
GREEN RIVER (GRTN1)	3968.00	1806.00	3980.44
MAHOGANY BENCH	4815.00	959.00	4833.80
LOWER GREEN RIVER (TGR3)	6119.00	-345.00	6146.19
WASATCH (W090TU2)	7974.00	-2200.00	8002.31

Plan Point Information:

DogLeg Severity Unit: °/100.00ft

Position offsets from Slot centre

MD (USft)	Inc (°)	Az (°)	TVD (USft)	+N/-S (USft)	+E/-W (USft)	VSec (USft)	DLS (DLSU)	Toolface (°)	Build (DLSU)	Turn (DLSU)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00
2466.67	7.00	274.90	2465.51	2.43	-28.37	28.47	1.50	274.9	1.50	0.00
5806.05	7.00	274.90	5780.00	37.19	-433.85	435.44	0.00	0.0	0.00	0.00
6139.38	2.00	274.90	6112.20	39.43	-459.90	461.58	1.50	180.0	-1.50	0.00
7944.97	2.00	274.90	7916.69	44.81	-522.68	524.60	0.00	0.0	0.00	0.00
8078.31	0.00	0.00	8050.00	45.01	-525.00	526.93	1.50	180.0	-1.50	0.00
10828.31	0.00	0.00	10800.00	45.01	-525.00	526.93	0.00	0.0	0.00	0.00



5D Plan Report



MOON 3-25C5

Field Name UTAH_CENTRAL ZONE_NAD83	Map Units : US ft		Company Name : EP ENERGY	
	Vertical Reference Datum (VRD) :			
	Projected Coordinate System : NAD83 / Utah Central (ftUS)			
	Comment :			
Site Name MOON 3-25C5	Units : US ft		North Reference : True	
	Position	Northing : 7238505.50 US ft		Convergence Angle : 0.71
		Easting : 1949689.40 US ft		Latitude : 40° 11' 10.74"
	Longitude : -110° 23' 34.67"			
Elevation above VRD:5750.00 US ft				
Comment : DUCHESNE COUNTY, UT				
Slot Name MOON 3-25C5	Position (Offsets relative to Site Centre)			
	+N / -S : 0.00 US ft		Northing :7238505.50 US ft	
	+E / -W : 0.00 US ft		Latitude : 40°11'10.74"	
	Easting :1949689.40 US ft		Longitude : -110°23'34.67"	
	Slot TVD Reference : Ground Elevation			
Elevation above VRD : 5750.00 US ft				
Comment :				
Well Name MOON 3-25C5	Type : Main well		UWI :	
	Rig Height		Plan : Working Plan	
	Drill Floor : 24.00 US ft		Comment : PATTERSON 307 (RKB:24')	
	Relative to VRD: 5774.00 US ft		Closure Azimuth : 274.9°	
	Closure Distance : 526.926 US ft		Vertical Section (Position of Origin Relative to Slot)	

5D Plan Report

Magnetic Parameters	+N / -S : 0.00 US ft		+E / -W : 0.00 US ft		Az :274.90°	
	Model : BGGM	Field Strength : 51853.2nT	Dec : 11.14°	Dip : 65.74°	Date : 03/Feb/2015	

Plan Archive					
Plan Folder	Date	Comment	Plans		
P1	03/Feb/2015		Plan PLAN 3	Date 03/Feb/2015	Comment

Target Set	
Name : MOON 3-25C5 _Target	Number of Targets : 1

Comment :

TargetName:	Position (Relative to Slot centre)			
PBHL	+N / -S : 45.01US ft		Northing : 7238544.01 US ft	Latitude : 40°11'11.19"
Shape:	+E / -W : -525.00 US ft		Easting : 1949163.88US ft	Longitude : -110°23'41.43"
Cuboid	TVD (Drill Floor) : 10800.00 US ft			
	Orientation	Azimuth : 0.00°	Inclination : 0.00°	
	Dimensions	Length : 20.00 US ft	Breadth : 20.00 US ft	Height : 20.00 US ft

Casing Points (Relative to Slot centre, TVD relative to Drill Floor)								
Name	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")
9 5/8 in	2000.00	0.00	0.00	2000.00	0.00	0.00	40°11'10.74"	-110°23'34.67"
7 in	8078.31	0.00	0.00	8050.00	45.01	-525.00	40°11'11.19"	-110°23'41.43"

Well path created using minimum curvature

Salient Points (Relative to Slot centre, TVD relative to Drill Floor)										
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)
TIE-ON	0.00	0.00	0.00	0.00	0.00	0.00	40°11'10.74"	-110°23'34.67"	0.00	0.00
BEGIN NUDGE @ 1.5°/100'	2000.00	0.00	0.00	2000.00	0.00	0.00	40°11'10.74"	-110°23'34.67"	0.00	0.00
END NUDGE	2466.67	7.00	274.90	2465.51	2.43	-28.37	40°11'10.77"	-110°23'35.03"	1.50	274.90
BEGIN DROP @ 1.5°/100'	5806.05	7.00	274.90	5780.00	37.19	-433.85	40°11'11.11"	-110°23'40.26"	0.00	0.00
END DROP	6139.38	2.00	274.90	6112.20	39.43	-459.90	40°11'11.13"	-110°23'40.59"	1.50	180.00

5D Plan Report

Salient Points (Relative to Slot centre, TVD relative to Drill Floor)											
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)
DROP @ 1.5deg/100'	7944.97	2.00	274.90	7916.69	44.81	-522.68	40°11'11.19"	-110°23'41.40"	0.00	0.00	524.60
END DROP	8078.31	0.00	0.00	8050.00	45.01	-525.00	40°11'11.19"	-110°23'41.43"	1.50	180.00	526.93
TD @ 10828.31' MD	10828.31	0.00	0.00	10800.00	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)												
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	T.Rate (°/100 US ft)
TIE-ON	0.00	0.00	0.00	0.00	0.00	0.00	40°11'10.74"	-110°23'34.67"	0.00	0.00	0.00	0.00
	98.43	0.00	0.00	98.43	0.00	0.00	40°11'10.74"	-110°23'34.67"	0.00	0.00	0.00	0.00
	196.85	0.00	0.00	196.85	0.00	0.00	40°11'10.74"	-110°23'34.67"	0.00	0.00	0.00	0.00
	295.28	0.00	0.00	295.28	0.00	0.00	40°11'10.74"	-110°23'34.67"	0.00	0.00	0.00	0.00
	393.70	0.00	0.00	393.70	0.00	0.00	40°11'10.74"	-110°23'34.67"	0.00	0.00	0.00	0.00
	492.13	0.00	0.00	492.13	0.00	0.00	40°11'10.74"	-110°23'34.67"	0.00	0.00	0.00	0.00
	590.55	0.00	0.00	590.55	0.00	0.00	40°11'10.74"	-110°23'34.67"	0.00	0.00	0.00	0.00
	688.98	0.00	0.00	688.98	0.00	0.00	40°11'10.74"	-110°23'34.67"	0.00	0.00	0.00	0.00
	787.40	0.00	0.00	787.40	0.00	0.00	40°11'10.74"	-110°23'34.67"	0.00	0.00	0.00	0.00
	885.83	0.00	0.00	885.83	0.00	0.00	40°11'10.74"	-110°23'34.67"	0.00	0.00	0.00	0.00
	984.25	0.00	0.00	984.25	0.00	0.00	40°11'10.74"	-110°23'34.67"	0.00	0.00	0.00	0.00
	1082.68	0.00	0.00	1082.68	0.00	0.00	40°11'10.74"	-110°23'34.67"	0.00	0.00	0.00	0.00
	1181.10	0.00	0.00	1181.10	0.00	0.00	40°11'10.74"	-110°23'34.67"	0.00	0.00	0.00	0.00
	1279.53	0.00	0.00	1279.53	0.00	0.00	40°11'10.74"	-110°23'34.67"	0.00	0.00	0.00	0.00
	1377.95	0.00	0.00	1377.95	0.00	0.00	40°11'10.74"	-110°23'34.67"	0.00	0.00	0.00	0.00
	1476.38	0.00	0.00	1476.38	0.00	0.00	40°11'10.74"	-110°23'34.67"	0.00	0.00	0.00	0.00
	1574.80	0.00	0.00	1574.80	0.00	0.00	40°11'10.74"	-110°23'34.67"	0.00	0.00	0.00	0.00
	1673.23	0.00	0.00	1673.23	0.00	0.00	40°11'10.74"	-110°23'34.67"	0.00	0.00	0.00	0.00
	1771.65	0.00	0.00	1771.65	0.00	0.00	40°11'10.74"	-110°23'34.67"	0.00	0.00	0.00	0.00
	1870.08	0.00	0.00	1870.08	0.00	0.00	40°11'10.74"	-110°23'34.67"	0.00	0.00	0.00	0.00
	1968.50	0.00	0.00	1968.50	0.00	0.00	40°11'10.74"	-110°23'34.67"	0.00	0.00	0.00	0.00
BEGIN NUDGE @ 1.5°/100'	2000.00	0.00	0.00	2000.00	0.00	0.00	40°11'10.74"	-110°23'34.67"	0.00	0.00	0.00	0.00
END NUDGE	2066.93	1.00	274.90	2066.92	0.05	-0.58	40°11'10.74"	-110°23'34.68"	1.50	274.90	0.59	0.00
	2165.35	2.48	274.90	2165.30	0.31	-3.57	40°11'10.75"	-110°23'34.71"	1.50	0.00	3.58	-0.00
	2263.78	3.96	274.90	2263.57	0.78	-9.07	40°11'10.75"	-110°23'34.78"	1.50	0.00	9.10	-0.00
	2362.20	5.43	274.90	2361.66	1.47	-17.10	40°11'10.76"	-110°23'34.89"	1.50	0.00	17.16	0.00
	2460.63	6.91	274.90	2459.51	2.37	-27.64	40°11'10.77"	-110°23'35.02"	1.50	0.00	27.74	-0.00
	2466.67	7.00	274.90	2465.51	2.43	-28.37	40°11'10.77"	-110°23'35.03"	1.50	0.00	28.47	0.00
	2559.05	7.00	274.90	2557.20	3.39	-39.59	40°11'10.78"	-110°23'35.18"	0.00	0.00	39.73	0.00
	2657.48	7.00	274.90	2654.89	4.42	-51.54	40°11'10.79"	-110°23'35.33"	0.00	0.00	51.73	0.00
	2755.90	7.00	274.90	2752.58	5.44	-63.49	40°11'10.80"	-110°23'35.49"	0.00	0.00	63.72	0.00
	2854.33	7.00	274.90	2850.28	6.47	-75.44	40°11'10.81"	-110°23'35.64"	0.00	0.00	75.72	0.00
	2952.75	7.00	274.90	2947.97	7.49	-87.39	40°11'10.82"	-110°23'35.79"	0.00	0.00	87.71	0.00

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)												
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	T.Rate (°/100 US ft)
GREEN RIVER (GRRV) :	3051.18	7.00	274.90	3045.66	8.52	-99.34	40°11'10.83"	-110°23'35.95"	0.00	0.00	99.71	0.00
	3149.60	7.00	274.90	3143.35	9.54	-111.29	40°11'10.84"	-110°23'36.10"	0.00	0.00	111.70	0.00
	3248.03	7.00	274.90	3241.04	10.57	-123.24	40°11'10.85"	-110°23'36.26"	0.00	0.00	123.70	0.00
	3281.23	7.00	274.90	3274.00	10.91	-127.28	40°11'10.85"	-110°23'36.31"	0.00	0.00	127.74	0.00
	3346.45	7.00	274.90	3338.73	11.59	-135.19	40°11'10.86"	-110°23'36.41"	0.00	0.00	135.69	0.00
	3444.88	7.00	274.90	3436.42	12.61	-147.15	40°11'10.87"	-110°23'36.56"	0.00	0.00	147.69	0.00
	3543.30	7.00	274.90	3534.11	13.64	-159.10	40°11'10.88"	-110°23'36.72"	0.00	0.00	159.68	0.00
	3641.73	7.00	274.90	3631.81	14.66	-171.05	40°11'10.89"	-110°23'36.87"	0.00	0.00	171.68	0.00
GREEN RIVER (GRTN1) :	3740.15	7.00	274.90	3729.50	15.69	-183.00	40°11'10.90"	-110°23'37.03"	0.00	0.00	183.67	0.00
	3838.58	7.00	274.90	3827.19	16.71	-194.95	40°11'10.91"	-110°23'37.18"	0.00	0.00	195.67	0.00
	3937.00	7.00	274.90	3924.88	17.74	-206.90	40°11'10.92"	-110°23'37.33"	0.00	0.00	207.66	0.00
	3980.44	7.00	274.90	3968.00	18.19	-212.18	40°11'10.92"	-110°23'37.40"	0.00	0.00	212.95	0.00
	4035.43	7.00	274.90	4022.57	18.76	-218.85	40°11'10.93"	-110°23'37.49"	0.00	0.00	219.66	0.00
	4133.85	7.00	274.90	4120.26	19.79	-230.80	40°11'10.94"	-110°23'37.64"	0.00	0.00	231.65	0.00
	4232.28	7.00	274.90	4217.95	20.81	-242.75	40°11'10.95"	-110°23'37.80"	0.00	0.00	243.65	0.00
	4330.70	7.00	274.90	4315.65	21.84	-254.71	40°11'10.96"	-110°23'37.95"	0.00	0.00	255.64	0.00
MAHOGANY BENCH :	4429.13	7.00	274.90	4413.34	22.86	-266.66	40°11'10.97"	-110°23'38.10"	0.00	0.00	267.64	0.00
	4527.55	7.00	274.90	4511.03	23.89	-278.61	40°11'10.98"	-110°23'38.26"	0.00	0.00	279.63	0.00
	4625.98	7.00	274.90	4608.72	24.91	-290.56	40°11'10.99"	-110°23'38.41"	0.00	0.00	291.63	0.00
	4724.40	7.00	274.90	4706.41	25.93	-302.51	40°11'11.00"	-110°23'38.57"	0.00	0.00	303.62	0.00
	4822.83	7.00	274.90	4804.10	26.96	-314.46	40°11'11.01"	-110°23'38.72"	0.00	0.00	315.62	0.00
	4833.80	7.00	274.90	4815.00	27.07	-315.79	40°11'11.01"	-110°23'38.74"	0.00	0.00	316.95	0.00
	4921.25	7.00	274.90	4901.79	27.98	-326.41	40°11'11.02"	-110°23'38.87"	0.00	0.00	327.61	0.00
	5019.68	7.00	274.90	4999.49	29.01	-338.36	40°11'11.03"	-110°23'39.03"	0.00	0.00	339.61	0.00
BEGIN DROP @ 1.5°/100'	5118.10	7.00	274.90	5097.18	30.03	-350.32	40°11'11.04"	-110°23'39.18"	0.00	0.00	351.60	0.00
	5216.53	7.00	274.90	5194.87	31.06	-362.27	40°11'11.05"	-110°23'39.34"	0.00	0.00	363.60	0.00
	5314.95	7.00	274.90	5292.56	32.08	-374.22	40°11'11.06"	-110°23'39.49"	0.00	0.00	375.59	0.00
	5413.38	7.00	274.90	5390.25	33.11	-386.17	40°11'11.07"	-110°23'39.64"	0.00	0.00	387.59	0.00
	5511.80	7.00	274.90	5487.94	34.13	-398.12	40°11'11.08"	-110°23'39.80"	0.00	0.00	399.58	0.00
	5610.23	7.00	274.90	5585.63	35.16	-410.07	40°11'11.09"	-110°23'39.95"	0.00	0.00	411.57	0.00
	5708.65	7.00	274.90	5683.32	36.18	-422.02	40°11'11.10"	-110°23'40.11"	0.00	0.00	423.57	0.00
	5806.05	7.00	274.90	5780.00	37.19	-433.85	40°11'11.11"	-110°23'40.26"	0.00	0.00	435.44	0.00
END DROP LOWER GREEN RIVER (TGR3) :	5807.08	6.98	274.90	5781.02	37.20	-433.97	40°11'11.11"	-110°23'40.26"	1.50	180.00	435.56	-0.00
	5905.50	5.51	274.90	5878.85	38.12	-444.64	40°11'11.12"	-110°23'40.40"	1.50	180.00	446.27	0.00
	6003.93	4.03	274.90	5976.94	38.82	-452.80	40°11'11.13"	-110°23'40.50"	1.50	180.00	454.46	-0.00
	6102.35	2.56	274.90	6075.20	39.30	-458.43	40°11'11.13"	-110°23'40.58"	1.50	180.00	460.11	0.00
	6139.38	2.00	274.90	6112.20	39.43	-459.90	40°11'11.13"	-110°23'40.59"	1.50	180.00	461.58	-0.00
	6146.19	2.00	274.90	6119.00	39.45	-460.13	40°11'11.13"	-110°23'40.60"	0.00	0.00	461.82	0.00

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)												
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	T.Rate (°/100 US ft)
	6200.78	2.00	274.90	6173.55	39.61	-462.03	40°11'11.13"	-110°23'40.62"	0.00	0.00	463.73	0.00
	6299.20	2.00	274.90	6271.92	39.90	-465.46	40°11'11.14"	-110°23'40.67"	0.00	0.00	467.16	0.00
	6397.63	2.00	274.90	6370.28	40.20	-468.88	40°11'11.14"	-110°23'40.71"	0.00	0.00	470.60	0.00
	6496.05	2.00	274.90	6468.65	40.49	-472.30	40°11'11.14"	-110°23'40.75"	0.00	0.00	474.03	0.00
	6594.48	2.00	274.90	6567.01	40.78	-475.72	40°11'11.15"	-110°23'40.80"	0.00	0.00	477.47	0.00
	6692.90	2.00	274.90	6665.38	41.08	-479.14	40°11'11.15"	-110°23'40.84"	0.00	0.00	480.90	0.00
	6791.33	2.00	274.90	6763.74	41.37	-482.57	40°11'11.15"	-110°23'40.89"	0.00	0.00	484.34	0.00
	6889.75	2.00	274.90	6862.11	41.66	-485.99	40°11'11.16"	-110°23'40.93"	0.00	0.00	487.77	0.00
	6988.18	2.00	274.90	6960.47	41.96	-489.41	40°11'11.16"	-110°23'40.97"	0.00	0.00	491.21	0.00
	7086.60	2.00	274.90	7058.84	42.25	-492.83	40°11'11.16"	-110°23'41.02"	0.00	0.00	494.64	0.00
	7185.03	2.00	274.90	7157.20	42.54	-496.26	40°11'11.16"	-110°23'41.06"	0.00	0.00	498.08	0.00
	7283.45	2.00	274.90	7255.57	42.84	-499.68	40°11'11.17"	-110°23'41.11"	0.00	0.00	501.51	0.00
	7381.88	2.00	274.90	7353.93	43.13	-503.10	40°11'11.17"	-110°23'41.15"	0.00	0.00	504.95	0.00
	7480.30	2.00	274.90	7452.30	43.42	-506.52	40°11'11.17"	-110°23'41.20"	0.00	0.00	508.38	0.00
	7578.73	2.00	274.90	7550.66	43.72	-509.95	40°11'11.18"	-110°23'41.24"	0.00	0.00	511.82	0.00
	7677.15	2.00	274.90	7649.03	44.01	-513.37	40°11'11.18"	-110°23'41.28"	0.00	0.00	515.25	0.00
	7775.58	2.00	274.90	7747.39	44.30	-516.79	40°11'11.18"	-110°23'41.33"	0.00	0.00	518.69	0.00
	7874.00	2.00	274.90	7845.76	44.60	-520.21	40°11'11.18"	-110°23'41.37"	0.00	0.00	522.12	0.00
DROP @ 1.5deg/100'	7944.97	2.00	274.90	7916.69	44.81	-522.68	40°11'11.19"	-110°23'41.40"	0.00	0.00	524.60	0.00
	7972.43	1.59	274.90	7944.13	44.88	-523.54	40°11'11.19"	-110°23'41.41"	1.50	180.00	525.46	0.00
WASATCH (W090TU2) :	8002.31	1.14	274.90	7974.00	44.94	-524.25	40°11'11.19"	-110°23'41.42"	1.50	180.00	526.17	-0.00
	8070.85	0.11	274.90	8042.54	45.01	-524.99	40°11'11.19"	-110°23'41.43"	1.50	180.00	526.92	0.00
END DROP	8078.31	0.00	0.00	8050.00	45.01	-525.00	40°11'11.19"	-110°23'41.43"	1.50	180.00	526.93	0.00
	8169.28	0.00	0.00	8140.96	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	8267.70	0.00	0.00	8239.39	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	8366.13	0.00	0.00	8337.81	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	8464.55	0.00	0.00	8436.24	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	8562.98	0.00	0.00	8534.66	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	8661.40	0.00	0.00	8633.09	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	8759.83	0.00	0.00	8731.51	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	8858.25	0.00	0.00	8829.94	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	8956.68	0.00	0.00	8928.36	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	9055.10	0.00	0.00	9026.79	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	9153.53	0.00	0.00	9125.21	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	9251.95	0.00	0.00	9223.64	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	9350.38	0.00	0.00	9322.06	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	9448.80	0.00	0.00	9420.49	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	9547.23	0.00	0.00	9518.91	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	9645.65	0.00	0.00	9617.34	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	9744.08	0.00	0.00	9715.76	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)												
Comment	MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Latitude (° ' ")	Longitude (° ' ")	DLS (°/100 US ft)	T.Face (°)	VS (US ft)	T.Rate (°/100 US ft)
	9842.50	0.00	0.00	9814.19	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	9940.93	0.00	0.00	9912.61	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	10039.35	0.00	0.00	10011.04	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	10137.78	0.00	0.00	10109.46	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	10236.20	0.00	0.00	10207.89	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	10334.63	0.00	0.00	10306.31	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	10433.05	0.00	0.00	10404.74	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	10531.48	0.00	0.00	10503.16	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	10629.90	0.00	0.00	10601.59	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	10728.33	0.00	0.00	10700.01	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
	10826.75	0.00	0.00	10798.44	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	0.00	526.93	0.00
TD @ 10828.31' MD	-1.#J	0.00	0.00	10800.00	45.01	-525.00	40°11'11.19"	-110°23'41.43"	0.00	90.00	526.93	0.00

Formation Points (Relative to Slot centre, TVD relative to Drill Floor)				
Name	MD (US ft)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)
GREEN RIVER (GRRV)	3281.23	3274.00	10.91	-127.28
GREEN RIVER (GRTN1)	3980.44	3968.00	18.19	-212.18
MAHOGANY BENCH	4833.80	4815.00	27.07	-315.79
LOWER GREEN RIVER (TGR3)	6146.19	6119.00	39.45	-460.13
WASATCH (W090TU2)	8002.31	7974.00	44.94	-524.25



February 3, 2015

Mr. Brad Hill
Utah Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84116-5801

RE: Directional Well
Moon 3-25C5
Surface Hole Location: 865' FSL, 1025' FEL (SESE) Section 25-3S-5W, U.S.B.&M.
Bottom Hole Location: 750' FSL, 1600' FEL (SWSE) Section 25-3S-5W, U.S.B.&M.
Duchesne County, Utah

Dear Mr. Hill,

As a supplement to EP Energy E&P Company, L.P.'s ("EPE") Sundry for Directional Drilling the above referenced well, we hereby submit this letter in accordance with Oil & Gas Conservation Rule R649-3-11, which pertains to the Location and Siting of Directional Wells.

EPE hereby certifies that EPE owns rights to existing oil and gas leases under all tracts that are on or within 460' of the proposed wellbore path to drill and produce. All such tracts are entirely within the 640 acre drilling unit for the well.

Best regards,

A handwritten signature in black ink, appearing to read "Jacquelyn Lynch", written over a horizontal line.

Jacquelyn L. Lynch
Sr. Landman
713-997-5747
Jacquelyn.Lynch@EpEnergy.com

EP ENERGY E&P COMPANY, LP

CONFIDENTIAL

2/10/2015

Subject: 24 Hour Notice of Spud 17-1/2" hole, cement , and run casing.

Well Name: Moon 3-25C5 SESE S-25 T23S R05W

API Well Number: 43013523980000

Field: Altamont

County: Duchesne

Mineral Owner: Fee

February 9, 2015

5:00 PM

Leon Ross Drilling

Best Regards

Gary Miller

Rig Site Supervisor

EP Energy LLC

C: 435-823-1725

1/4/2015

Subject: 24 Hour Notice of Initial Spud on the following well.

Well Name: Moon 3-25C5

API Well Number: 43013523980000

Field: Altamont

County: Duchesne

Mineral Owner: Fee

846 FSL 1060 FEL
8 ESE 25 35 5W

CONFIDENTIAL

January 4, 2015

10:00 AM

Leon Ross Drilling

Rig #35 Bucket Rig Spudded in on the above well for EP Energy LLC.

Best Regards

Gary Miller

Rig Site Supervisor

EP Energy LLC

C: 435-823-1725

CONFIDENTIAL

Carol Daniels <caroldaniels@utah.gov>

SESE 5-25 T03 R05W FEE LEASE

24 Hour Intent to run & cement 7" Int Casing on MOON 3-25C5

1 message

LANDRIG007 (Patterson 307) <LANDRIG007@epenergy.com>

Mon, Mar 2, 2015 at 1:11 PM

To: "alexishuefner@utah.gov" <alexishuefner@utah.gov>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, Dan Jarvis <danjarvis@utah.gov>, "Mangum, Danny R (Contractor)" <danny.mangum@epenergy.com>, "dennisingram@utah.gov" <dennisingram@utah.gov>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, "Derden, Roy Lynn (Contractor)" <Roy.Derden@epenergy.com>

RE: EP ENERGY
MOON 3-25C5
API # 43013523980000
DUCHESNE CO., UTAH

We intend to run and cement approximately 8,100' of 7", 29#, HCP-110, LTC Intermediate casing on MOON 3-25C5 well within 24 hrs.

Regards,

Eugene Parker

Well site Supervisor

Patterson 307

713-997-1255

EP ENERGY

THIS E-MAIL AND ANY MATERIALS TRANSMITTED WITH IT MAY CONTAIN CONFIDENTIAL OR PROPRIETARY MATERIAL FOR THE SOLE USE OF THE INTENDED RECIPIENT. ANY REVIEW, USE, DISTRIBUTION OR DISCLOSURE BY OTHERS IS STRICTLY PROHIBITED. IF YOU ARE NOT THE INTENDED RECIPIENT, OR AUTHORIZED TO RECEIVE THE INFORMATION FROM THE RECIPIENT, PLEASE NOTIFY THE SENDER BY REPLY E-MAIL AND DELETE ALL COPIES OF THIS MESSAGE.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MININGAMENDED REPORT ☐ FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG						5. LEASE DESIGNATION AND SERIAL NUMBER:					
						6. IF INDIAN, ALLOTTEE OR TRIBE NAME					
						7. UNIT or CA AGREEMENT NAME					
						8. WELL NAME and NUMBER:					
1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____						9. API NUMBER:					
b. TYPE OF WORK: NEW WELL <input type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____						10 FIELD AND POOL, OR WILDCAT					
2. NAME OF OPERATOR:						11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:					
3. ADDRESS OF OPERATOR: CITY _____ STATE _____ ZIP _____						PHONE NUMBER: _____		12. COUNTY		13. STATE UTAH	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: AT TOP PRODUCING INTERVAL REPORTED BELOW: AT TOTAL DEPTH:						17. ELEVATIONS (DF, RKB, RT, GL):					
14. DATE SPUDDED:		15. DATE T.D. REACHED:		16. DATE COMPLETED: ABANDONED <input type="checkbox"/> READY TO PRODUCE <input type="checkbox"/>		21. DEPTH BRIDGE MD PLUG SET: TVD					
18. TOTAL DEPTH: MD TVD		19. PLUG BACK T.D.: MD TVD		20. IF MULTIPLE COMPLETIONS, HOW MANY? *		23. WAS WELL CORED? NO <input type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input type="checkbox"/> (Submit copy)					
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)											
24. CASING AND LINER RECORD (Report all strings set in well)											
HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED		
25. TUBING RECORD											
SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)			
26. PRODUCING INTERVALS					27. PERFORATION RECORD						
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS			
(A)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. See attached for further information on #27 & #28.											
DEPTH INTERVAL		AMOUNT AND TYPE OF MATERIAL									
29. ENCLOSED ATTACHMENTS: All logs are submitted to UDOGM by vendor.								30. WELL STATUS:			
<input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS				<input type="checkbox"/> GEOLOGIC REPORT		<input type="checkbox"/> DST REPORT		<input type="checkbox"/> DIRECTIONAL SURVEY			
<input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION				<input type="checkbox"/> CORE ANALYSIS		<input type="checkbox"/> OTHER: _____					

31. INITIAL PRODUCTION**INTERVAL A (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)**33. SUMMARY OF POROUS ZONES (Include Aquifers):**

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) _____ TITLE _____

SIGNATURE _____ DATE _____

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

Attachment to Well Completion Report**Form 8 Dated April 30, 2015****Well Name: Moon 3-25C5****Items #27 and #28 Continued****27. Perforation Record**

Interval (Top/Bottom – MD)	Size	No. of Holes	Perf. Status
9013'-9284'	.43	69	Open
8735'-8976'	.43	69	Open
8471'-8704'	.43	69	Open
8180'-8439'	.43	69	Open

28. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
9319'-9601'	4000 gal acid, 3000# 100 mesh, 150,000# 30/50 TLC
9013'-9284'	4000 gal acid, 3000# 100 mesh, 151,560# 30/50 TLC
8735'-8976'	4000 gal acid, 3100# 100 mesh, 150,000# 30/50 Premium
8471'-8704'	4000 gal acid, 3000# 100 mesh, 150,000# 30/50 Premium
8180'-8439'	4000 gal acid, 3000# 100 mesh, 150,000# 30/50 Premium



Company: EP Energy

Job Number:

Calculation Method Minimum Curvature

Well: Moon 3-25C5

Mag Decl.:

Proposed Azimuth 0.00

Location: Duchesne, UT

Dir Driller:

Depth Reference KB

Rig: Patterson 307

MWD Eng:

Tie Into: Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
Tie In	0.00	0.00	0.00												
1	100.00	0.38	204.33	100.00	100.00	-0.30	0.30	S	0.14	W	0.33	204.33	0.38	0.38	204.33
2	200.00	0.42	133.37	100.00	200.00	-0.86	0.86	S	0.01	W	0.86	180.68	0.47	0.04	-70.97
3	300.00	0.24	314.63	100.00	300.00	-0.97	0.97	S	0.11	E	0.97	173.56	0.65	-0.18	181.26
4	400.00	0.47	199.78	100.00	400.00	-1.21	1.21	S	0.18	W	1.22	188.28	0.61	0.24	-114.85
5	500.00	0.44	130.99	100.00	499.99	-1.85	1.85	S	0.02	W	1.85	180.69	0.52	-0.03	-68.80
6	600.00	0.18	143.29	100.00	599.99	-2.23	2.23	S	0.36	E	2.26	170.71	0.27	-0.26	12.31
7	700.00	0.38	67.40	100.00	699.99	-2.23	2.23	S	0.77	E	2.35	160.97	0.38	0.20	-75.89
8	800.00	0.46	108.95	100.00	799.99	-2.23	2.23	S	1.45	E	2.66	146.86	0.31	0.07	41.55
9	900.00	0.45	102.74	100.00	899.98	-2.44	2.44	S	2.21	E	3.30	137.80	0.05	-0.01	-6.21
10	1000.00	0.50	191.83	100.00	999.98	-2.95	2.95	S	2.51	E	3.88	139.67	0.67	0.05	89.09
11	1100.00	1.07	165.10	100.00	1099.97	-4.29	4.29	S	2.66	E	5.04	148.18	0.67	0.57	-26.73
12	1200.00	0.85	176.74	100.00	1199.96	-5.93	5.93	S	2.94	E	6.62	153.60	0.30	-0.23	11.65
13	1300.00	1.53	193.59	100.00	1299.94	-7.96	7.96	S	2.67	E	8.40	161.45	0.76	0.68	16.85
14	1400.00	1.43	175.06	100.00	1399.90	-10.50	10.50	S	2.47	E	10.78	166.78	0.49	-0.10	-18.54
15	1500.00	1.68	198.72	100.00	1499.87	-13.13	13.13	S	2.10	E	13.29	170.90	0.68	0.25	23.67
16	1600.00	1.51	166.37	100.00	1599.83	-15.79	15.79	S	1.94	E	15.91	172.99	0.90	-0.17	-32.35
17	1700.00	1.92	187.37	100.00	1699.79	-18.73	18.73	S	2.04	E	18.84	173.79	0.75	0.42	21.00
18	1800.00	2.02	183.44	100.00	1799.73	-22.15	22.15	S	1.72	E	22.22	175.57	0.17	0.10	-3.92
19	1900.00	2.00	195.15	100.00	1899.67	-25.60	25.60	S	1.15	E	25.62	177.42	0.41	-0.02	11.71
20	1934.00	2.04	195.12	34.00	1933.65	-26.75	26.75	S	0.84	E	26.77	178.20	0.12	0.12	-0.10
21	2082.00	2.20	192.20	148.00	2081.55	-32.07	32.07	S	0.45	W	32.07	180.80	0.13	0.11	-1.97
22	2177.00	2.40	237.10	95.00	2176.48	-34.93	34.93	S	2.50	W	35.02	184.09	1.86	0.21	47.26
23	2273.00	3.10	260.60	96.00	2272.37	-36.45	36.45	S	6.75	W	37.07	190.49	1.37	0.73	24.48
24	2368.00	4.10	266.80	95.00	2367.18	-37.06	37.06	S	12.67	W	39.17	198.88	1.13	1.05	6.53
25	2465.00	4.80	279.70	97.00	2463.89	-36.57	36.57	S	20.14	W	41.75	208.84	1.25	0.72	13.30
26	2559.00	4.90	286.60	94.00	2557.55	-34.76	34.76	S	27.86	W	44.55	218.72	0.63	0.11	7.34
27	2654.00	5.40	297.10	95.00	2652.17	-31.56	31.56	S	35.73	W	47.67	228.54	1.12	0.53	11.05
28	2750.00	6.50	304.50	96.00	2747.65	-26.43	26.43	S	44.23	W	51.52	239.14	1.39	1.15	7.71
29	2845.00	7.40	302.80	95.00	2841.96	-20.07	20.07	S	53.80	W	57.42	249.55	0.97	0.95	-1.79
30	2940.00	7.90	307.80	95.00	2936.11	-12.75	12.75	S	64.10	W	65.36	258.75	0.88	0.53	5.26



Company: EP Energy

Job Number:

Calculation Method Minimum Curvature

Well: Moon 3-25C5

Mag Decl.:

Proposed Azimuth 0.00

Location: Duchesne, UT

Dir Driller:

Depth Reference KB

Rig: Patterson 307

MWD Eng:

Tie Into: Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates				Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)		E/W (ft)		Distance (ft)	Direction Azimuth			
31	3035.00	8.30	306.50	95.00	3030.16	-4.67	4.67	S	74.78	W	74.92	266.43	0.46	0.42	-1.37
32	3130.00	9.10	307.20	95.00	3124.07	3.95	3.95	N	86.27	W	86.36	272.62	0.85	0.84	0.74
33	3226.00	9.90	306.90	96.00	3218.75	13.49	13.49	N	98.92	W	99.83	277.77	0.83	0.83	-0.31
34	3322.00	10.00	306.00	96.00	3313.31	23.35	23.35	N	112.26	W	114.66	281.75	0.19	0.10	-0.94
35	3418.00	10.20	304.50	96.00	3407.82	33.06	33.06	N	126.01	W	130.27	284.70	0.34	0.21	-1.56
36	3514.00	10.20	306.40	96.00	3502.30	42.92	42.92	N	139.86	W	146.29	287.06	0.35	0.00	1.98
37	3609.00	9.40	307.00	95.00	3595.92	52.58	52.58	N	152.82	W	161.62	288.99	0.85	-0.84	0.63
38	3704.00	9.80	306.80	95.00	3689.59	62.09	62.09	N	165.49	W	176.76	290.57	0.42	0.42	-0.21
39	3800.00	10.50	306.30	96.00	3784.08	72.17	72.17	N	179.08	W	193.08	291.95	0.73	0.73	-0.52
40	3895.00	9.60	303.30	95.00	3877.62	81.64	81.64	N	192.68	W	209.26	292.96	1.10	-0.95	-3.16
41	3990.00	9.80	304.40	95.00	3971.27	90.56	90.56	N	205.97	W	225.00	293.73	0.29	0.21	1.16
42	4086.00	10.30	300.40	96.00	4065.79	99.52	99.52	N	220.12	W	241.57	294.33	0.89	0.52	-4.17
43	4180.00	9.20	297.80	94.00	4158.44	107.27	107.27	N	234.01	W	257.43	294.63	1.26	-1.17	-2.77
44	4276.00	9.10	297.10	96.00	4253.21	114.31	114.31	N	247.56	W	272.68	294.79	0.16	-0.10	-0.73
45	4372.00	9.70	295.60	96.00	4347.92	121.26	121.26	N	261.61	W	288.35	294.87	0.68	0.63	-1.56
46	4467.00	10.30	299.10	95.00	4441.48	128.85	128.85	N	276.25	W	304.82	295.01	0.90	0.63	3.68
47	4563.00	9.90	292.10	96.00	4536.00	136.13	136.13	N	291.40	W	321.63	295.04	1.34	-0.42	-7.29
48	4658.00	10.10	293.30	95.00	4629.55	142.50	142.50	N	306.61	W	338.11	294.93	0.30	0.21	1.26
49	4754.00	10.00	294.60	96.00	4724.08	149.30	149.30	N	321.92	W	354.86	294.88	0.26	-0.10	1.35
50	4848.00	9.90	295.30	94.00	4816.67	156.15	156.15	N	336.65	W	371.10	294.88	0.17	-0.11	0.74
51	4944.00	8.50	287.90	96.00	4911.43	161.86	161.86	N	350.86	W	386.40	294.76	1.91	-1.46	-7.71
52	5040.00	7.10	283.10	96.00	5006.54	165.38	165.38	N	363.39	W	399.26	294.47	1.61	-1.46	-5.00
53	5136.00	6.20	272.00	96.00	5101.90	166.91	166.91	N	374.35	W	409.88	294.03	1.63	-0.94	-11.56
54	5231.00	5.10	256.20	95.00	5196.44	166.08	166.08	N	383.58	W	417.99	293.41	1.99	-1.16	-16.63
55	5327.00	5.10	254.90	96.00	5292.06	163.95	163.95	N	391.85	W	424.76	292.70	0.12	0.00	-1.35
56	5422.00	4.70	251.40	95.00	5386.72	161.61	161.61	N	399.61	W	431.05	292.02	0.53	-0.42	-3.68
57	5517.00	3.90	264.00	95.00	5481.45	160.03	160.03	N	406.51	W	436.88	291.49	1.30	-0.84	13.26
58	5613.00	3.60	275.50	96.00	5577.25	159.98	159.98	N	412.76	W	442.68	291.19	0.84	-0.31	11.98
59	5708.00	3.30	262.80	95.00	5672.08	159.92	159.92	N	418.44	W	447.96	290.92	0.86	-0.32	-13.37
60	5804.00	4.30	273.00	96.00	5767.86	159.76	159.76	N	424.78	W	453.83	290.61	1.25	1.04	10.63
61	5898.00	3.70	259.50	94.00	5861.64	159.39	159.39	N	431.28	W	459.79	290.28	1.18	-0.64	-14.36
62	5994.00	4.10	275.90	96.00	5957.42	159.18	159.18	N	437.74	W	465.78	289.98	1.23	0.42	17.08



Company: EP Energy

Job Number:

Calculation Method Minimum Curvature

Well: Moon 3-25C5

Mag Decl.:

Proposed Azimuth 0.00

Location: Duchesne, UT

Dir Driller:

Depth Reference KB

Rig: Patterson 307

MWD Eng:

Tie Into: Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates				Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)		E/W (ft)		Distance (ft)	Direction Azimuth			
63	6088.00	4.00	264.70	94.00	6051.18	159.23	159.23	N	444.35	W	472.01	289.71	0.85	-0.11	-11.91
64	6184.00	3.40	273.00	96.00	6146.98	159.07	159.07	N	450.52	W	477.78	289.45	0.84	-0.63	8.65
65	6279.00	3.30	262.50	95.00	6241.82	158.86	158.86	N	456.05	W	482.92	289.20	0.65	-0.11	-11.05
66	6375.00	3.10	247.40	96.00	6337.67	157.50	157.50	N	461.18	W	487.33	288.86	0.90	-0.21	-15.73
67	6470.00	3.70	264.30	95.00	6432.51	156.21	156.21	N	466.60	W	492.06	288.51	1.22	0.63	17.79
68	6565.00	3.40	250.80	95.00	6527.33	154.98	154.98	N	472.32	W	497.09	288.17	0.93	-0.32	-14.21
69	6661.00	3.40	264.60	96.00	6623.16	153.77	153.77	N	477.84	W	501.97	287.84	0.85	0.00	14.38
70	6756.00	2.80	257.00	95.00	6718.02	152.98	152.98	N	482.90	W	506.56	287.58	0.76	-0.63	-8.00
71	6851.00	3.10	270.60	95.00	6812.90	152.49	152.49	N	487.73	W	511.02	287.36	0.80	0.32	14.32
72	6947.00	3.00	256.60	96.00	6908.76	151.93	151.93	N	492.77	W	515.66	287.14	0.78	-0.10	-14.58
73	7042.00	3.10	250.60	95.00	7003.63	150.50	150.50	N	497.61	W	519.88	286.83	0.35	0.11	-6.32
74	7136.00	3.00	241.60	94.00	7097.50	148.49	148.49	N	502.17	W	523.67	286.47	0.52	-0.11	-9.57
75	7232.00	2.90	228.30	96.00	7193.37	145.68	145.68	N	506.20	W	526.74	286.06	0.72	-0.10	-13.85
76	7328.00	3.20	220.10	96.00	7289.23	142.02	142.02	N	509.74	W	529.15	285.57	0.55	0.31	-8.54
77	7423.00	3.60	212.60	95.00	7384.07	137.47	137.47	N	513.05	W	531.15	285.00	0.63	0.42	-7.89
78	7517.00	4.00	210.60	94.00	7477.86	132.17	132.17	N	516.31	W	532.96	284.36	0.45	0.43	-2.13
79	7613.00	4.60	209.80	96.00	7573.59	125.94	125.94	N	519.93	W	534.96	283.62	0.63	0.63	-0.83
80	7708.00	3.30	194.00	95.00	7668.36	119.98	119.98	N	522.48	W	536.08	282.93	1.77	-1.37	-16.63
81	7802.00	1.30	211.90	94.00	7762.29	116.45	116.45	N	523.70	W	536.49	282.54	2.24	-2.13	19.04
82	7897.00	0.90	134.10	95.00	7857.27	115.02	115.02	N	523.74	W	536.22	282.39	1.49	-0.42	-81.89
83	7993.00	1.20	154.90	96.00	7953.26	113.58	113.58	N	522.77	W	534.96	282.26	0.50	0.31	21.67
84	8050.00	0.60	199.30	57.00	8010.25	112.76	112.76	N	522.61	W	534.64	282.18	1.54	-1.05	77.89
85	8100.00	1.08	190.68	50.00	8060.24	112.05	112.05	N	522.79	W	534.66	282.10	1.00	0.97	-17.24
86	8200.00	1.98	189.01	100.00	8160.21	109.41	109.41	N	523.23	W	534.55	281.81	0.90	0.90	-1.67
87	8300.00	2.77	175.66	100.00	8260.12	105.29	105.29	N	523.32	W	533.81	281.38	0.96	0.79	-13.34
88	8400.00	3.16	174.75	100.00	8359.99	100.14	100.14	N	522.89	W	532.39	280.84	0.40	0.39	-0.91
89	8500.00	3.34	175.47	100.00	8459.83	94.48	94.48	N	522.40	W	530.88	280.25	0.19	0.18	0.72
90	8600.00	3.70	176.11	100.00	8559.64	88.36	88.36	N	521.95	W	529.38	279.61	0.36	0.35	0.65
91	8700.00	3.97	176.61	100.00	8659.41	81.69	81.69	N	521.53	W	527.89	278.90	0.27	0.27	0.50
92	8800.00	3.87	178.27	100.00	8759.18	74.86	74.86	N	521.22	W	526.57	278.17	0.15	-0.10	1.66
93	8900.00	3.72	181.51	100.00	8858.96	68.24	68.24	N	521.21	W	525.66	277.46	0.26	-0.15	3.24
94	9000.00	3.88	184.32	100.00	8958.74	61.62	61.62	N	521.55	W	525.18	276.74	0.25	0.16	2.81



Company: EP Energy

Job Number:

Calculation Method Minimum Curvature

Well: Moon 3-25C5

Mag Decl.:

Proposed Azimuth 0.00

Location: Duchesne, UT

Dir Driller:

Depth Reference KB

Rig: Patterson 307

MWD Eng:

Tie Into: Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates			Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')	
							N/S (ft)	E/W (ft)		Distance (ft)	Direction Azimuth				
95	9100.00	4.14	188.20	100.00	9058.49	54.67	54.67	N	522.32	W	525.17	275.98	0.38	0.26	3.88
96	9200.00	4.05	188.19	100.00	9158.24	47.60	47.60	N	523.34	W	525.50	275.20	0.09	-0.09	-0.01
97	9300.00	4.10	182.83	100.00	9257.99	40.54	40.54	N	524.02	W	525.58	274.42	0.38	0.05	-5.36
98	9400.00	4.14	182.00	100.00	9357.73	33.37	33.37	N	524.32	W	525.38	273.64	0.07	0.04	-0.84
99	9500.00	4.06	185.93	100.00	9457.47	26.24	26.24	N	524.81	W	525.47	272.86	0.29	-0.08	3.94
100	9600.00	4.02	188.69	100.00	9557.23	19.26	19.26	N	525.70	W	526.06	272.10	0.20	-0.04	2.76
101	9700.00	3.73	187.08	100.00	9657.00	12.57	12.57	N	526.64	W	526.79	271.37	0.30	-0.28	-1.61
102	9800.00	3.96	188.68	100.00	9756.77	5.92	5.92	N	527.56	W	527.59	270.64	0.25	0.23	1.60
103	9900.00	3.93	187.46	100.00	9856.53	-0.89	0.89	S	528.53	W	528.53	269.90	0.09	-0.03	-1.22
104	10000.00	3.84	188.44	100.00	9956.30	-7.60	7.60	S	529.46	W	529.52	269.18	0.12	-0.10	0.98
105	10100.00	3.98	187.60	100.00	10056.07	-14.35	14.35	S	530.41	W	530.61	268.45	0.16	0.15	-0.84
106	10200.00	4.19	187.41	100.00	10155.82	-21.41	21.41	S	531.34	W	531.77	267.69	0.21	0.21	-0.19
107	10300.00	4.04	187.74	100.00	10255.56	-28.52	28.52	S	532.29	W	533.05	266.93	0.15	-0.15	0.33
108	10400.00	4.02	187.42	100.00	10355.31	-35.48	35.48	S	533.21	W	534.39	266.19	0.03	-0.01	-0.33
109	10440.00	3.81	187.90	40.00	10395.22	-38.19	38.19	S	533.58	W	534.94	265.91	0.54	-0.54	1.20
110	10635.00	3.81	187.90	195.00	10589.79	-51.01	51.01	S	535.36	W	537.78	264.56	0.00	0.00	0.00

CENTRAL DIVISION

ALTAMONT FIELD

MOON 3-25C5

MOON 3-25C5

DRILLING LAND

Operation Summary Report

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1 General

1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	MOON 3-25C5		
Project	ALTAMONT FIELD	Site	MOON 3-25C5
Rig Name/No.	PATTERSON/307	Event	DRILLING LAND
Start date	2/23/2015	End date	3/10/2015
Spud Date/Time	2/26/2015	UWI	MOON 3-25C5
Active datum	KB @5,773.8ft (above Mean Sea Level)		
Afe No./Description	160706/53510 / MOON 3-25C5		

2 Summary

2.1 Operation Summary

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
2/12/2015	6:00 6:00	24.00	DRLSURF	07		P	0.0	PRE-SET RIG DRILLED SET, CMT 20" COND 40' - DRILLED SET, CMT 13 3/8" SFC COND 631' - DRILLED SET, CMT 9 5/8" SFC CSG 2,001' - R/D M/O RIG.
2/23/2015	6:00 6:00	0.00	MIRU	01		P	2,064.0	MIRU. 90% MOVED IN. 35% RIGGED UP.
2/24/2015	6:00 6:00	0.00	MIRU	01		P	2,064.0	MIRU. 100% MOVED IN. 65% RIGGED UP. 11" 10M TRIPLE BOPE IS ON B-SECTION.
2/25/2015	6:00 3:00	21.00	MIRU	01		P	2,064.0	FINISHED RIG UP. PERFORMED S & E INSPECTION. DAYWORK BEGAN 03:00 HRS, 02/25/2015.
	3:00 6:00	3.00	CASSURF	28		P	2,064.0	TESTED MANIFOLD 250 / 10,000 PSI WHILE NU 11" 10M ANNULAR, CHOKE LINE ETC.
2/26/2015	6:00 11:00	5.00	CASSURF	28		P	2,064.0	FINISHED NU WING VALVES, CHOKE LINE, ETC. WEATHERFORD TORQUED CONNECTIONS.
	11:00 17:00	6.00	CASSURF	30		P	2,064.0	MIXED SPUD MUD & DRESSED SHAKERS WHILE TESTED ANNULAR 250 PSI LOW / 4,000 PSI HIGH. REMAINDER BOPE, FLOOR VALVES, ETC TESTED 250 PSI LOW / 5,000 PSI HIGH & HELD >10 MINUTES EACH TEST.
	17:30 18:30	1.00	CASSURF	31		P	2,064.0	TESTED CASING 2,500 PSI. HELD >30 MINUTES. RD WEATHERFORD. INSERTED 9" ID WEAR BUSHING.
	18:30 0:00	5.50	CASSURF	28		P	2,064.0	CENTRALIZED & STABILIZED STACK. NU ROT HEAD & FLOWLINE.
	0:00 3:00	3.00	CASSURF	13		P	2,064.0	PUMU RYAN'S ASSEMBLY & TESTED. MU 8 3/4" MM54D INSERT PDC BIT.
	3:00 6:00	3.00	CASSURF	14		P	2,064.0	PUMU DCs, HWDP, & 5" DP FROM RACKS.
2/27/2015	6:00 7:00	1.00	CASSURF	13		P	2,064.0	PUMU 5" DP FROM RACKS.
	7:00 7:30	0.50	CASSURF	31		P	2,064.0	RETESTED CASING TO 1,000 PSI AT 1/2 BBLS INCREMENTS, RECORDING DATA POINTS FOR CHART.
	7:30 9:00	1.50	CASSURF	32		P	2,064.0	DRILLED CEMENT, FE & 10' NH TO 2,074'.
	9:00 9:30	0.50	CASSURF	15		P	2,074.0	C & C MUD. PERFORMED FIT TO 15.9 PPG EMW.
2/28/2015	9:30 6:00	20.50	DRLINT1	07		P	2,074.0	DRILLED 2,074' - 4,000'.
	6:00 20:00	14.00	DRLINT1	07		P	4,000.0	DRILL 4,000' - 5,417'.
	20:00 20:30	0.50	DRLINT1	11		P	5,417.0	TDU & RIG SERVICE.
3/1/2015	20:30 6:00	9.50	DRLINT1	07		P	5,417.0	DRILL 5,417' - 6,050'.
	6:00 16:30	10.50	DRLINT1	07		P	6,050.0	DRILLED 6,050' - 6,805'.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duratio n (hr)	Phase	Activit y	Sub	OP Code	MD from (ft)	Operation
3/2/2015	16:30 17:30	1.00	DRLINT1	12		P	6,805.0	SERVICED RIG & TDU.
	17:30 6:00	12.50	DRLINT1	07		P	6,805.0	DRILLED 6,805' - 7,550'.
	6:00 14:30	8.50	DRLINT1	07		P	7,550.0	DRILL 7,550' - 8,100' ICP. INCREASED MUD WT TO 10.3 PPG.
	14:30 15:30	1.00	DRLINT1	15		P	8,100.0	C & C MUD.
	15:30 23:00	7.50	DRLINT1	13		P	8,100.0	TOOH. TIGHT SPOTS: 4,901', 4880', & 3,243'.
	23:00 1:00	2.00	DRLINT1	14		P	8,100.0	L/D RYAN'S TOOLS, BIT.
3/3/2015	1:00 6:00	5.00	DRLINT1	13		P	8,100.0	MAKE UP RR PDC BIT #1. TIH, TIGHT AT 4,500'.
	6:00 8:30	2.50	DRLINT1	13		P	8,100.0	FINISHED TIH WITH RERUN PDC BIT.
	8:30 11:00	2.50	DRLINT1	15		P	8,100.0	C & C MUD. 10.3 MW CUT TO 9.4 WITH 6,500 MAX TRIP GAS. INCREASED MW TO 10.5 PPG.
	11:00 14:30	3.50	DRLINT1	14		P	8,100.0	LAID DOWN 5" DP.
	14:30 15:00	0.50	DRLINT1	12		P	8,100.0	RIG SERVICE.
	15:00 16:00	1.00	DRLINT1	43		N	8,100.0	REPLACED TDU BOLTS.
	16:00 21:30	5.50	DRLINT1	42		P	8,100.0	FINISHED LD 5" DP, BHA, BIT.
	21:30 22:00	0.50	DRLINT1	12		P	8,100.0	CLEANED RIG FLOOR. REMOVED WEAR BUSHING, INSTALLED TRIP NIPPLE.
3/4/2015	22:00 6:00	8.00	EVLINT1	22		P	8,100.0	RU & RAN WEATHERFORD'S SLIM HOLE QUAD-COMBO LOG. TAGGED BTM AT 8,100' WLM, POOH ART.
	6:00 8:00	2.00	EVLINT1	22		P	8,100.0	FINISHED WEATHERFORD'S SLIM HOLE QUAD-COMBO LOGGING. RD ELU TRUCK.
	8:00 2:00	18.00	CASINT1	24		P	8,100.0	DECREASED MW TO 10.2 PPG WHILE RU FRANK'S WESTATES' CASING TOOLS. PUMU SHOE, FLOAT JT, & FC. SIH WITH 7", 29#, HCP-110, LT&C, INTERMEDIATE CASING. CBU, DISPLACED 10.5 WITH 10.2 PPG MUD FROM 2,000' WITH FULL RETURNS PUMPING 2 TO 4 BPM. RAN CSG TO 3,500'. UNABLE TO ESTABLISH RETURNS FROM 3,500'. REDUCED MUD WT TO 9.9 PPG. SIH W/O RETURNS. RAN A TOTAL OF 194 FULL JTS PLUS 1 MARKER JOINT.
	4:00 6:00	2.00	CASINT1	24		P	8,100.0	SPACED OUT, LD TAG JOINTS. PUMU LANDING JOINT WITH RH RUBBER. RD FILL-UP TOOL. INSTALLED HES' CMT HEAD & PLUMBING. CBU AT 2, THEN 6 BPM.
3/5/2015	6:00 7:00	1.00	CASINT1	15		P	8,100.0	PUMP 100 BBLS. OF DRILLING MUD, NO RETURNS.
	7:00 10:30	3.50	CASINT1	25		P	8,100.0	RU HALLIBURTON AND CEMENT 7" CASING. CEMENT WITH 50 BBLS OF FRESH WATER, 40 BBLS OF TUNED SPACER (11.4 PPG 3.78 YIELD 22.7 GAL/SK WATER) 206 BBLS. OF LEAD(610 SKS 12.5 PPG 1.9 YIELD 10.27 GAL/SK WATER) 88 BBLS OF TAIL (310 SKS. 13.0 PPG 1.64 YIELD 8.17 GAL/SK WATER) DISPLACED WITH 299 BBLS OF 9.9 PPG DRILLING MUD. NO RETURNS THROUGHOUT JOB. PRESSURE PRIOR TO BUMPING PLUG 1220 PSI. PLUG BUMPED, PRESSURED TO 1720 PSI. FLOATS HELD, FLOWED BACK 1-1/2 BBLS.
	10:30 15:30	5.00	CASINT1	42		P	8,100.0	RD HALLIBURTON. BACK OUT LANDING JOINT. LD DOWN ELEVATORS AND BAILS. INSTALL PACKOFF AND TEST. 5000 PSI / 15 MINUTES. OK.
	15:30 19:30	4.00	CASINT1	30		P	8,100.0	TESTED ANNULAR 250 PSI LOW / 5,000 PSI HIGH. TESTED FLOOR VALVES & REMAINDER OF 11" 10 M BOPE 250 LOW & 10,000 PSI. HELD ALL TESTS >10 MINUTES.
	19:30 20:30	1.00	CASINT1	45		P	8,100.0	TESTED CSG TO 2,500 PSI FOR 30 MINUTES.
	20:30 6:00	9.50	CASINT1	14		P	8,100.0	PICK UP BHA AND 4" DRILL PIPE.
3/6/2015	6:00 9:00	3.00	DRLPRD	14		P	8,100.0	PU 4" DP
	9:00 11:00	2.00	DRLPRD	72		P	8,100.0	DRILLING PLUG, FC, CEMENT, AND FS. DRILL 10' OF NEW HOLE.
	11:00 11:30	0.50	DRLPRD	15		P	8,110.0	CIRCULATE FOR FIT. PERFORM FIT. ADDED SURFACE PRESSURE 1026, BLEAD OFF TO 960. EMW 13.25. PRESSURE QUOTIENT 0.69.
	11:30 17:00	5.50	DRLPRD	07		P	8,110.0	DRILLING FROM 8110' TO 8456'

2.1 Operation Summary (Continued)

Date	Time Start-End	Duratio n (hr)	Phase	Activit y	Sub	OP Code	MD from (ft)	Operation
3/7/2015	17:00 17:30	0.50	DRLPRD	12		P	8,456.0	RIG SERVICE
	17:30 20:00	2.50	DRLPRD	07		P	8,456.0	DRILLING FROM 8456' TO 8644'.
	20:00 20:30	0.50	DRLPRD	15		P	8,644.0	CIRC AND CONDITION MUD FOR INC. SURVEY.
	20:30 21:30	1.00	DRLPRD	11		P	8,644.0	SLICK LINE SURVEY @ 8609' INC. 3.45
	21:30 6:00	8.50	DRLPRD	07		P	8,644.0	DRILLING FROM 8644' TO 9507'.
	6:00 15:00	9.00	DRLPRD	07		P	9,507.0	DRILLING FROM 9507' TO 10,635'.
	15:00 16:00	1.00	DRLPRD	15		P	10,635.0	CIRCULATE AND CONDITION MUD RAISING MUD WEIGHT to 11.6.
	16:00 16:30	0.50	DRLPRD	12		P	10,635.0	SIMULATE CONNECTION, RIG SERVICE
	16:30 17:00	0.50	DRLPRD	15		P	10,635.0	CIRCULATE BU. BU GAS 4307 PASON, 2207 THIRD PARTY.
	17:00 20:30	3.50	DRLPRD	13		P	10,635.0	SHORT TRIP TO CASING SHOE.
3/8/2015	20:30 22:30	2.00	DRLPRD	15		P	10,635.0	CIRCULATE AND CONDITION MUD INCREASE MUD WT. TO 11.8 PPG.
	22:30 3:00	4.50	DRLPRD	13		P	10,635.0	TRIP OUT OF HOLE.
	3:00 6:00	3.00	DRLPRD	13		P	10,635.0	LAY DOWN BHA.
	6:00 14:30	8.50	EVLPRD	22		P	10,635.0	RU AND RUN COMPACT QUAD COMBO. LOGGER'S TD 10,635'. RD LOGGERS
3/9/2015	14:30 20:00	5.50	CASPRD1	24		P	10,635.0	RU FRANKS WESTATES AND RUN FS, 1 JOINT OF 5" 18# P-110 CASING, FC, 1 JOINT OF CASING, LANDING COLLAR, AND 63 JOINTS OF CASING. MARKER JOINTS AT 9627 AND 8631
	20:00 6:00	9.00	CASPRD1	24		P	10,635.0	STAGE IN HOLE WITH 5" LINER ON 4" DP. CBU, DISPLACING 11.8 WITH 11.4 MUD AT 2.5 BPM EACH 1,000' TO 2,000' INTERVALS.
	6:00 8:30	2.50	CASPRD1	42		P	10,635.0	WASHING CASING DOWN FROM 9200' TO 10,635'.
3/10/2015	8:30 11:30	3.00	CASPRD1	15		P	10,635.0	CIRCULATE BU X 2.
	11:30 14:30	3.00	CASPRD1	25		P	10,635.0	PJSM WITH HALLIBURTON. RU CEMENT HEAD AND LINES. PRESSURE TEST HEAD AND LINES TO 9500 PSI. OK. PUMP 20 BBLS OF TUNED SPACER (11.6 PPG 3.66 YIELD 23.5 GAL/SK WATER 30.7 SKS) 50 BBLS. OF LEAD CEMENT (14.2 PPG. 1.52 YIELD 6.54 GAL/SK WATER 185 SKS) DROP DART. DISPLACED WITH 60 BBLS OF FRESH WATER AND 67.3 BBLS OF 11.4 PPG DRILLING MUD. BUMPED PLUG. PRESSURE PRIOR TO BUMPING 2100 PSI. PRESSURED TO 2600 PSI. FLOATS HELD. FLOWED BACK 1-1/2 BBLS.
	14:30 16:30	2.00	CASPRD1	25		P	10,635.0	DROPPED BALL, PRESSURED TO 5500 PSI AND RUPTURED DISC. PUMPED 55 BBLS AND SEATED BALL. PRESSURED TO 7900 AND SET PACKER. PULL TESTED 50K OVER STRING WEIGHT (275K) OK. SLACKED OFF TO 100K AND SHEARED OFF OF HANGER. CIRCULATED 1-1/2 TIMES BU. CIRCULATED 20 BBLS OF SPACER AND 5 BBLS OF CEMENT TO SURFACE. PRESSURE TESTED LINER TOP 1000 PSI / 10 MINUTES. HELD. DISPLACED HOLE WITH CLAWEB AND ALDACIDE.
	16:30 18:00	1.50	CASPRD1	42		P	10,635.0	RD HALLIBURTON, LAY DOWN CEMENT HEAD.DRAIN TOP DRIVE AND SURFACE LINES.
	18:00 18:30	0.50	CASPRD1	12		P	10,635.0	RIG SERVICE
	18:30 0:30	6.00	CASPRD1	14		P	10,635.0	LDDP.
	0:30 4:30	4.00	CASPRD1	14		P	10,635.0	TRIP IN HOLE WITH PIPE FROM DERRICK AND LAY DOWN SAME.
	4:30 6:00	1.50	CASPRD1	29		P	10,635.0	NIPPLE DOWN 11" 10M BOPE & 11" 5M X 11"10M B-SECTION.
	6:00 12:00	6.00	CASPRD1	29		P	10,635.0	ND 10K BOPE.
	12:00 13:30	1.50	CASPRD1	27		P	10,635.0	INSTALL TUBING SPOOL, FRACK VALVE, AND NIGHT CAP. PRESSURE TEST 5000 PSI / 30 MONUTES. OK. RR @ 13:30, 3/9/2015.
	13:30 6:00	16.50	RDMO	02		P	10,635.0	RIGGING DOWN, 40% RIGGED DOWN.

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CENTRAL DIVISION

ALTAMONT FIELD

MOON 3-25C5

MOON 3-25C5

COMPLETION LAND

Operation Summary Report

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1 General

1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	MOON 3-25C5		
Project	ALTAMONT FIELD	Site	MOON 3-25C5
Rig Name/No.		Event	COMPLETION LAND
Start date	3/17/2015	End date	4/8/2015
Spud Date/Time	2/26/2015	UWI	MOON 3-25C5
Active datum	KB @5,773.8ft (above Mean Sea Level)		
Afe No./Description	160706/53510 / MOON 3-25C5		

2 Summary

2.1 Operation Summary

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
3/17/2015	6:00 7:00	1.00	WOR	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; MOVING RIG
	7:00 10:30	3.50	MIRU	01		P		ROAD RIG FROM THE 2-24C5 TO LOCATION HSM UPDATE JSA TOPIC; RIGGING UP... MIRU
	10:30 16:00	5.50	WOR	39		P		P/U 4 1/8" ROCK BIT TALLY AND P/U 95- JTS OF 2 3/8" XO CONTINUE w 229- JTS OF 2 7/8" TBG TAG AT 10484' TMD
	16:00 20:00	4.00	WOR	10		P		R/U POWER SWIVEL ESTABLISH CIRC C/O TO 10537' TMD CIRC WELL CLEAN R/D POWER SWIVEL L/D 5-JT SECURE WELL TIW VALVE w NIGHT CAP CLOSE PIPE RAM AND LOCK CLOSE 7" CSG VALVE w BULL PLUGS SDFN
3/18/2015	6:00 7:00	1.00	WOR	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; L/D TUBING
	7:00 12:12	5.20	WOR	39		P		TOH L/D 231-JTS OF 2 7/8" TBG L/D 95-JTS OF 2 3/8" L/D C/O ASSEMBLY
	12:12 14:00	1.80	WOR	16		P		R/D FLOOR CLOSE 7" MASTER VALVE CLOSE 7" CSG VALVE AND BULL PLUG N/D BOPE N/U NIGHT CAP ON 7" MASTER VALVE RDMO
3/19/2015	6:00 8:00	2.00	WLWORK	28		P		CREW TRAVEL HELD SAFETY MEETING ON RIGGING UP WIRELINE. FILLED OUT JSA.
	8:00 14:30	6.50	WLWORK	18		P		RU CUTTERS WIRELINE RIH RAN CBL, CCL AND GAMMA RAY FROM 10538' TO 1800' WHILE HOLD 4000 PSI ON CSG.. CORRELATED TO WEATHERFORDS COMPACT QUAD COMBO QUICKLOOK LOG. RUN 2 DATED 7-MAR-15. RD WIRELINE. CLOSED IN WELL. CLOSED 7" MANUAL FRAC VALVE AND INSTALLED NIGHT CAP. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS. SDFN.
3/25/2015	6:00 6:30	0.50	SITEPRE	28		P		TGSM & JSA (SETTING AND FILLING TANKS)
	6:30 6:00	23.50	SITEPRE	01		P		START SETTING AND FILLING FRAC TANKS
3/26/2015	6:00 6:30	0.50	SITEPRE	28		P		TGSM & JSA (HAULING WATER)
	6:30 6:00	23.50	SITEPRE	18		P		CONTINUE SETTING AND FILLING TANKS
3/27/2015	6:00 6:30	0.50	MIRU	28		P		TGSM & JSA (NU PROCEDURES)
	6:30 14:30	8.00	MIRU	16		P		NU STACK, TEST CASING TO 9K FOR 30 MINUTES, GOOD TEST, TEST STACK TO 9K FOR 15 MINUTES. TEST FLOW BACK LINES TO 7K. SWI

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
3/28/2015	6:00 6:30	0.50	WLWORK	28		P		TGSM & JSA (WIRE LINE OPERATIONS)
	6:30 12:30	6.00	STG01	21		P		MIRU CUTTERS WIRE LINE, RIG UP. PERFORATE STAGE 1. 10,512' TO 10,228'. 23 NET FT, 69 HOLES, WITH 2 3/4" TITAN PERFECTA SDP, 16 GM CHARGES, 3 SPF AND 120° PHASING. HOLDING 1000 PSIG SURFACE PRESSURE. W/ NO CHANGES.
	12:30 6:00	17.50	SITEPRE	18		P		PREP FOR FRAC
3/29/2015	6:00 7:30	1.50	SITEPRE	28		P		CT TGSM & JSA (BATCHING AND HEATING TANKS)
	7:30 17:30	10.00	SITEPRE	01		P		BATCH 1000 BBL TANKS WITH 5 GALLON BLEACH, HEAT WATER FOR FRAC.
3/30/2015	6:00 6:30	0.50	MIRU	28		P		TGSM & JSA (RU FRAC EQUIPMENT)
	6:30 6:30	0.00	MIRU	01		P		MIRU FRAC EQUIPMENT
3/31/2015	6:00 6:30	0.50	MIRU	28		P		TGSM & JSA (FRAC OPERATIONS)
	6:30 7:00	0.50	MIRU	01		P		PRIME UP AND PRESSURE TEST LINES AND EQUIPMENT TO 9500 PSI.
	7:00 8:30	1.50	STG01	35		P		SIP @ 1109 PSIG, BREAK DOWN STAGE 1 PERFS 15 BPM @ 5007 PSIG. ESTABLISH RATE TO 42.2 @ 5661. ISDP @ 3705 .79 F.G 5 MIN 3662. 10 MIN 3616. TREAT STAGE 1 PERFS W/ 3000# 100 MESH IN 1/2 PPG STAGE AND 150,000 TLC 30/50 IN .5,1,2,3 PPG FLUSH TO TOP PERF ISDP @ 3737, .79 F.G, AVE RATE 79 BPM, MAX RATE 81 BPM, AVE PRES 4891, MAX PRES 7535. AVE HORSE POWER 9,470 SWI TOT WIRELINE, STAGE 1 WATER TO RECOVER 3852.
	8:30 10:00	1.50	STG02	21		P		RIH SET & TEST CBP @ 10,203'. PERFORATE STAGE 2. 10,188' TO 9,896'. 23 NET FT, 69 HOLES, WITH 2 3/4" TITAN PERFECTA SDP, 16 GM CHARGES, 3 SPF AND 120° PHASING. BEGINNING PRESSURE @ 3600 ENDING PRESSURE @ 3000.
	10:00 11:30	1.50	STG02	35		P		SIP @ 2968 PSIG, BREAK DOWN STAGE 2 PERFS 10 BPM @ 5529 PSIG. ESTABLISH RATE TO 39.8 @ 5988. ISDP @ 3819 .81 F.G 5 MIN 3737. 10 MIN 3723. TREAT STAGE 2 PERFS W/ 3000# 100 MESH IN 1/2 PPG STAGE AND 150,000 TLC 30/50 IN .5,1,2,3 PPG FLUSH TO TOP PERF ISDP @ 3998, .83 F.G, AVE RATE 78 BPM, MAX RATE 81 BPM, AVE PRES 4718, MAX PRES 7682. AVE HORSE POWER 9,020 SWI TOT WIRELINE, STAGE 2 WATER TO RECOVER 3825.
	11:30 12:30	1.00	STG03	21		P		RIH SET & TEST CBP @ 9,878'.PERFORATE STAGE 3. 9,863' TO 9,643'. 23 NET FT, 69 HOLES, WITH 2 3/4" TITAN PERFECTA SDP, 16 GM CHARGES, 3 SPF AND 120° PHASING. BEGINNING PRESSURE @ 3900 ENDING PRESSURE @ 3750.
	12:30 14:00	1.50	STG03	35		P		SIP @ 3730 PSIG, BREAK DOWN STAGE 3 PERFS 10 BPM @ 6995 PSIG. ESTABLISH RATE TO 43 @ 6648. ISDP @ 3809 .82 F.G 5 MIN 3726. 10 MIN 3719. TREAT STAGE 3 PERFS W/ 3000# 100 MESH IN 1/2 PPG STAGE AND 150,000 TLC 30/50 IN .5,1,2,3 PPG FLUSH TO TOP PERF ISDP @ 4120, .85 F.G, AVE RATE 79 BPM, MAX RATE 82 BPM, AVE PRES 4816, MAX PRES 7360. AVE HORSE POWER 9,325 SWI TOT WIRELINE, STAGE 3 WATER TO RECOVER 3753.
	14:00 15:00	1.00	STG04	21		P		RIH SET & TEST CBP @ 9,616'.PERFORATE STAGE 4. 9,601' TO 9,319'. 23 NET FT, 69 HOLES, WITH 2 3/4" TITAN PERFECTA SDP, 16 GM CHARGES, 3 SPF AND 120° PHASING. BEGINNING PRESSURE @ 3500 ENDING PRESSURE @ 2500.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
4/1/2015	15:00 16:30	1.50	STG04	35		P		SIP @ 2468 PSIG, BREAK DOWN STAGE 4 PERFS 7 BPM @ 6087 PSIG. ESTABLISH RATE TO 43 @ 7113. ISDP @ 3787 .83 F.G 5 MIN 3752. 10 MIN 3741. TREAT STAGE 4 PERFS W/ 3000# 100 MESH IN 1/2 PPG STAGE AND 150,000 TLC 30/50 IN .5,1,2,3 PPG FLUSH TO TOP PERF ISDP @ 3950, .85 F.G, AVE RATE 78 BPM, MAX RATE 80 BPM, AVE PRES 4717, MAX PRES 6877. AVE HORSE POWER 9,018 SWI TOT WIRELINE, STAGE 4 WATER TO RECOVER 3773.
	16:30 17:30	1.00	STG05	21		P		RIH SET & TEST CBP @ 9,304'. PERFORATE STAGE 5. 9,284' TO 9,013'. 23 NET FT, 69 HOLES, WITH 2 3/4" TITAN PERFECTA SDP, 16 GM CHARGES, 3 SPF AND 120° PHASING. BEGGINNING PRESSURE @ 3500 ENDING PRESSURE @ 3200.
	17:30 18:30	1.00	STG05	18		P		GREASE VALVE, SHUT AND LOCK HCR VALVES, ALL NIGHT CAPS IN PLACE WITH NEEDLE VALVES CLOSED.
	6:00 7:00	1.00	STG05	28		P		TGSM & JSA (FRAC OPERATIONS)
	7:00 8:30	1.50	STG05	35		P		SIP @ 3530 PSIG, BREAK DOWN STAGE 5 PERFS 10.5 BPM @ 5486 PSIG. ESTABLISH RATE TO 43.2 @ 5636. ISDP @ 3551 .82 F.G 5 MIN 3409. 10 MIN 3333. TREAT STAGE 5 PERFS W/ 3000# 100 MESH IN 1/2 PPG STAGE AND 151,160 TLC 30/50 IN .5,1,2,3 PPG FLUSH TO TOP PERF ISDP @ 3916, .86 F.G, AVE RATE 76 BPM, MAX RATE 80 BPM, AVE PRES 4676, MAX PRES 6881. AVE HORSE POWER 8,710 SWI TOT WIRELINE, STAGE 5 WATER TO RECOVER 3745.
	8:30 10:00	1.50	STG06	21		P		RIH SET & TEST CBP @ 8,991'. PERFORATE STAGE 6. 8,976' TO 8,735'. 23 NET FT, 69 HOLES, WITH 2 3/4" TITAN PERFECTA SDP, 16 GM CHARGES, 3 SPF AND 120° PHASING. BEGGINNING PRESSURE @ 3000 ENDING PRESSURE @ 1500.
	10:00 11:30	1.50	STG06	35		P		SIP @ 2811 PSIG, BREAK DOWN STAGE 6 PERFS 12 BPM @ 6659 PSIG. ESTABLISH RATE TO 39.1 @ 7620. ISDP @ 3197 .79 F.G 5 MIN 2818. 10 MIN 2654. TREAT STAGE 6 PERFS W/ 3000# 100 MESH IN 1/2 PPG STAGE AND 150,000 WHITE 30/50 IN .5,1,2,3 PPG FLUSH TO TOP PERF ISDP @ 3365, .81 F.G, AVE RATE 77 BPM, MAX RATE 80 BPM, AVE PRES 4470, MAX PRES 7649. AVE HORSE POWER 8,436 SWI TOT WIRELINE, STAGE 6 WATER TO RECOVER 3769.
	11:30 12:00	0.50	STG07	21		P		RIH SET & TEST CBP @ 8715'. PERFORATE STAGE 7. 8,704' TO 8,522'. WITH 2 3/4" TITAN PERFECTA SDP, 16 GM CHARGES, 3 SPF AND 120° PHASING. GUN SHORTED
	12:00 13:00	1.00	STG07	21		N		POOH REPAIR GUN, RIH W/ GUN
	13:00 13:30	0.50	STG07	21		P		PERFORATE 8,515 TO 8,471 WITH 2 3/4" TITAN PERFECTA SDP, 16 GM CHARGES, 3 SPF AND 120° PHASING.
	13:30 15:00	1.50	STG07	35		P		SIP @ 1352 PSIG, BREAK DOWN STAGE 7 PERFS 12.5 BPM @ 6534 PSIG. ESTABLISH RATE TO 39.5 @ 6534. ISDP @ 2754 .75 F.G 5 MIN 2564. 10 MIN 2439. TREAT STAGE 7 PERFS W/ 3000# 100 MESH IN 1/2 PPG STAGE AND 150,020 WHITE 30/50 IN .5,1,2,3 PPG FLUSH TO TOP PERF ISDP @ 3537, .84 F.G, AVE RATE 76 BPM, MAX RATE 77 BPM, AVE PRES 3939, MAX PRES 7031. AVE HORSE POWER 7,337 SWI TOT WIRELINE, STAGE 7 WATER TO RECOVER 3743.
	15:00 16:00	1.00	STG08	21		P		RIH SET & TEST CBP @ 8,454'. PERFORATE STAGE 8. 8,439' TO 8,180'. 23 NET FT, 69 HOLES, WITH 2 3/4" TITAN PERFECTA SDP, 16 GM CHARGES, 3 SPF AND 120° PHASING. BEGGINNING PRESSURE @ 2500 ENDING PRESSURE @ 1000. RDMOL W/ WIRE LINE UNIT.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
	16:00 17:00	1.00	STG08	35		P		SIP @ 944 PSIG, BREAK DOWN STAGE 8 PERFS 10 BPM @ 3562 PSIG. ESTABLISH RATE TO 41.1 @ 5750. ISDP @ 2553 .63 F.G 5 MIN 994. 10 MIN 733. TREAT STAGE 8 PERFS W/ 3000# 100 MESH IN 1/2 PPG STAGE AND 150,020 WHITE 30/50 IN .5,1,2,3 PPG FLUSH TO TOP PERF ISDP @ 2553, .74 F.G, AVE RATE 78 BPM, MAX RATE 79 BPM, AVE PRES 3529, MAX PRES 6712. AVE HORSE POWER 6,833 SWI TOT WIRELINE, STAGE 8 WATER TO RECOVER 3714.
	17:00 19:00	2.00	RDMO	02		P		SHUT AND LOCK HCR VALVES. ALL CASING AND TREE 2" VALVES ARE SHUT W/ NIGHT CAP. SHUT SURFACE CASING VALVES. RDMOL W/ FRAC EQUIPMENT
4/2/2015	6:00 11:30	5.50	CTU	42		N		WAIT ON COIL TBG UNIT TO GET PERMITS AND TRAVEL TO LOCATION
	11:30 18:00	6.50	MIRU	01		P		SPOT EQUIPMENT, RU PUMP LINES AND EQUIPMENT. NU BOPE. INSTALL NIGHT CAP.
	11:30 11:30	0.00	CTU	28		P		TGSM & JSA (COIL TBG RIG UP OPERATIONS)
4/3/2015	6:00 6:30	0.50	CTU	28		P		TGSM & JSA (COIL TBG OPERATIONS)
	6:30 10:00	3.50	MIRU	01		P		FILL COIL TBG AND WATER HAD BAD ODOR, TOOK SAMPLE. PUT ON COIL CONNECTOR, PULL AND PRESSURE TEST. MU MOTOR ASSEMBLY W/ 4 1/8" BIT. PUMP 4 GAL X CIDE 133 BIOCID MIXED W/ 5 BBLs. PUMP 5 BBL SPACER, PUMP 5 BBLs MIXED W/ HSW 6389. PUMP COIL TBG VOLUME. PRESSURE TEST STACK.
	10:00 15:00	5.00	CTU	40		P		RIH TAG AND DRILL CBP @ 8715 WHP @ 450 TAG AND DRILL CBP @ 8715 WHP @ 1600 TAG AND DRILL CBP @ 8991 WHP @ 1730 TAG AND DRILL CBP @ 9304 WHP @ 1750 TAG AND DRILL CBP @ 9616 WHP @ 2300 TAG AND DRILL CBP @ 9878 WHP @ 2800 TAG AND DRILL CBP @ 10203 WHP @ 3050 CLEAN OUT TO PBTD 10,533 CTM WHP @ 3125
	15:00 20:00	5.00	CTU	40		P		CIRCULATE WELL CLEAN PULL TO LINER TOP, CIRCULATE CLEAN. POOH.
	20:00 22:00	2.00	RDMO	02		P		LAY DOWN MOTOR ASSEMBLY. BLOW COIL DRY, RD OFF WELL HEAD.
	22:00 6:00	8.00	FB	23		P		OPEN WELL 2200 ON 12/64 CHOKE 8 HR FLOW BACK TO TANK 390 BBLs CURRENT PRESSURE @ 1800 PSI
	6:00 6:30	0.50	FB	28		P		TGSM & JSA (FLOW BACK OPERATIONS)
	6:30 6:00	23.50	FB	23		P		CURRENT PRESSURE 1475 PSIG ON 12/64 CHOKE 24 HOUR FLOW BACK TO TANK 1006 BBLs
4/5/2015	6:00 6:30	0.50	FB	28		P		TGSM & JSA (FLOW BACK OPERATIONS)
	6:30 6:00	23.50	FB	23		P		CURRENT PRESSURE 1225 PSI ON 12/64 CHIKE 0 OIL 445 WATER 85 MCF
4/6/2015	6:00 6:30	0.50	FB	28		P		TGSM & JSA (FLOW BACK OPERATIONS)
	6:30 6:00	23.50	FB	23		P		CURRENT PRESSURE 1125 PSI ON 12/64 CHIKE 164 OIL 246 WATER 132 MCF
4/7/2015	6:00 7:30	1.50	WLWORK	28		P		CT TGSM & JSA (WIRE LINE SET PACKER)

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
4/8/2015	7:30 11:30	4.00	WLWORK	20		P		MIRU WIRE LINE UNIT, RIH W/ WCS 5" PACKER ASSEMBLY W/ PLUG CATCHER. GO INSIDE LINER, ATTEMPT TO PULL THROUGH 1ST CASING COLLAR, COLLAR LOCATOR WOULD GO THROUGH BUT PACKER WOULD NOT. OPEN WELL PACKER WOULD TRAVEL DOWN AND UP WOULD NOT PULL THROUGH COLLAR. TRAVEL DOWN THROUGH 2ND COLLAR IN LINER FLOWING WELL SAME RESULTS. TALKED WITH TROY ANDERTON AND SET PACKER @ 8020'. POOH RD MOL SW/ WIRE LINE.
	11:30 13:30	2.00	INSTUB	25		P		BWD, ND FRAC STACK. NU TESTED 5K BOPE. RU WORK FLOOR AND TBG EQUIPMENT.
	13:30 15:30	2.00	INSTUB	25		P		PUMU & RIH W/ RET, HEAD, 5 JTS 2 3/8", X/O TO 2 7/8", 100 JTS 2 7/8". FAN AND RIG CAME APART AND DAMAGED RADIATOR. SHUT AND LOCK PIPE RAMS, SHUT 2" VALVES AND INSTALL NIGHT CAPS, INSTALL AND SHUT 2 7/8" TIW VALVE. INSTALL NIGHT CAP.
	15:30 17:30	2.00	INSTUB	54		N		PULL OUT RADIATOR.
	17:30 6:00	12.50	INSTUB	42		N		WAIT ON NEW RADIATOR AND FAN
	6:00 6:30	0.50	WOR	28		N		TGSM & JSA (LOCK OUT TAG OUT)
	6:30 9:00	2.50	WOR	54		N		REPLACE RADIATOR
	9:00 11:30	2.50	INSTUB	25		P		BWD CIH W/ 141 JTS 2 7/8", LAY DOWN 2 JTS, PU 8' PUP JT, 1 JT.
	11:30 13:30	2.00	INSTUB	06		P		CIRCULATE CLEAN W/ PACKER FLUID. (WASH ON AND OFF SEAL NIPPLE) LATCH ON TEMPORARY LAND TUBING W/ 6' PUP JT, HANGER W/ BPV INSTALLED. RD WORK FLOOR AND TBG EQUIPMENT. ND BOPE AND FRAC VALVE.
	13:30 16:00	2.50	WHDTRE	16		P		PULL BPV, RE LAND IN TENSION, W/ HANGER W/ BPV INSTALLED. NU TREE, TEST VOID TO 10K, MU FLOW LINES. TEST LINES AND TREE TO 5K. TEST CASING AND SEAL NIPPLE TO 1000 PSIG. PULL BPV. PUMP OFF PLUG, PUMP PAST PLUG W/ 5 BBLs. SWI. RDMOL.
4/9/2015	16:00 5:00	13.00	FB	23		P		OPEN UP 1200 PSIG ON 12/64 CHOKE. CURRENT PRESSURE 1500 ON 12/64 CHOKE 13 HOUR FLOW BACK 65 OIL 187 WTR 59 MCF
	6:00 6:30	0.50	FB	28		P		TGSM & JSA (FLOW BACK OPERATIONS)
	6:30 6:30	0.00	FB	23		P		CURRENT PRESSURE 1500 ON 12/64 CHOKE 24 HOUR FLOW BACK 285 OIL (87 BBLs WAS TRANSFERED FROM FLOW BACK TANKS) 285 WTR 220 MCF

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STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002		8. WELL NAME and NUMBER: Moon 3-25C5
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0865 FSL 1025 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 25 Township: 03.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013523980000
PHONE NUMBER: 713 997-5038 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 4/18/2016	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: Artificial Lift Install
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Please see attached procedure and WBD.

Approved by the
 April 13, 2016
 Oil, Gas and Mining

Date: _____

By: Derek Duff

NAME (PLEASE PRINT) Linda Renken	PHONE NUMBER 713 997-5138	TITLE Sr. Regulatory Analyst
SIGNATURE N/A	DATE 4/11/2016	



Artificial Lift Install

Moon 3-25C5

API # : 4301352398

Section: Sec 25 T3S R5W

Lat: 40° 11' 10.896" N, Long: 110° 23' 32.1102" W

Altamont Field

Duchesne County, Utah

AFE : 160706

Version #1

04/06/2016

Objective: POOH w/ tubing and Packer. Make TD check. RIH w/ production BHA. Install rods and pump. PWOP.

Prepared by: Jon Weitzel
Jon Weitzel

Reviewed by: _____
Robert Fondren

Approved by: _____
Troy Anderton

Approved by: _____
Barry Lloyd

Distribution (Approved Copies):

Robert Fondren

Troy Anderton

Barry Lloyd

Gerry Veazey

Well File (Central Records)

Altamont Office (Well Files)

Moon 3-25C5
Artificial Lift Install

COMPANY PERSONNEL			
Title	Name	Office	Mobile
Completions Manager	Barry Lloyd	(713) 997-3988	(713) 202-2502
Completions Engineer	Robert Fondren	(713) 997-4827	(713) 582-5425
Sr. Completions Engineer	Ryan Krug	(713) 997-3384	(281) 682-7320
Geologist	Ron Schneider	(713) 997-6437	(713) 557-5967
Completion Foreman	Troy Anderton	(435) 454-4229	(435) 823-1450
Completion Supervisor	Gerry Veazey	(713) 997-5903	(281) 753-8188

Tubing Description								
String	Description	Burst (psi) 100%	Collaps e (psi) 100%	Body Yield (Mlbs)	Jt Yield (Mlbs)	ID (in.)	Drift (in.)	TOC
Surface Casing	9-5/8" 40 ppf N-80 LTC @ 2,003' KB	5750	3090	916	737	8.835	8.679	Surf
Intermediate Casing	7" 29 ppf HCP-110 LTC @ 9,206' KB	11220	9200	929	797	6.184	6.059	2,950'
Production Liner	5" 18 ppf P-110 STL 9,016' – 11,836' KB	13940	13450	580	341	4.276	4.151	9,016'
Tubing (proposed)	236 Jts 2-7/8" 6.5 ppf L- 80 Surface – 7,800' KB	10570	11170		145	2.441	2.347	

Present Wellbore Condition:

Well is currently flowing up tapered 2-3/8" and 2-7/8" production string with 5" PKR @ 8,005' MD.

Moon 3-25C5
Artificial Lift Install

Artificial Lift Install:

- 1) MIRU WOR. Kill tubing. Confirm tubing and casing have no pressure. Set BPV in hanger.
- 2) ND tree and confirm tubing is dead. Remove backpressure valve. Install 6' pup joint with TIW valve in tubing hanger. PU on hanger and install 4' pup joint and re-land tubing in wellhead.
- 3) NU 7-1/16" 5K BOP. Test pipe rams and ring gasket to 4,000 psi with hot oiler.
- 4) Release tubing set packer @ 8,048'.
- 5) POOH w/ hanger, 1 jts 2-7/8" 6.5# N-80 EUE Tubing (32.65'), 1 jt 2-7/8" N-80 EUE Tubing sub (8'), 239 jts 2-7/8" 6.5# N-80 EUE Tubing (7,825.3'), 2-3/8" - 2-7/8" Crossover (0.50'), 5 jts 2-3/8" 4.70# N-80 EUE Tubing (160.3'), On/off tool, 5" Arrowset Packer @ 8048.5', 2-3/8" 4.70# N-80 EUE tubing sub (4.05'), Pumpout plug (0.37'), 1 jt 2-7/8" 6.5# N-80 EUE tubing sub (4.02'), 2-7/8" Bull Plug/No-Go Nipple (0.72'). EOT @ ~8,065'.
 - a. When EOT is @ 3000' – 4,000', MIRU WLU. Test lubricators to 4,000 psi. RIH and make TD check with weight bars (bottom perf @ 10,512'). POOH with weight bars.
- 6) PU & RIH w/ tubing BHA as shown below (also in WBD). Space out, set TAC w/ appropriate tension @ 8,075'.
 - a. If well shows signs of flowing or high pressure, discuss using Breech-Lock hanger. Otherwise land with B- Flange.

Tubing Anchor @ ~7,575'
4 jts 2-7/8" 6.5# N-80 8rd Tubing
2-7/8" X 2-1/4" X 38' Pump Barrel
4' x 2-7/8" pup jt
Seating Nipple @ ~7,700'
2' x 2 7/8" Tubing Sub
5 1/2" x 32' PBGA
2 jt 2-7/8" Mud Anchor
Bull Plug/No-Go Nipple
EOT @ ~7,800'

Moon 3-25C5
Artificial Lift Install

- 7) PU & RIH w/ pump and rod assembly shown below as per Rod Star design. Land in seating nipple, put on polished rod and double tag. Slack off and hang rods in neutral then lift rods appropriate length for stretch and clamp off. Test stroke pump with rig and make sure pump is not tagging.

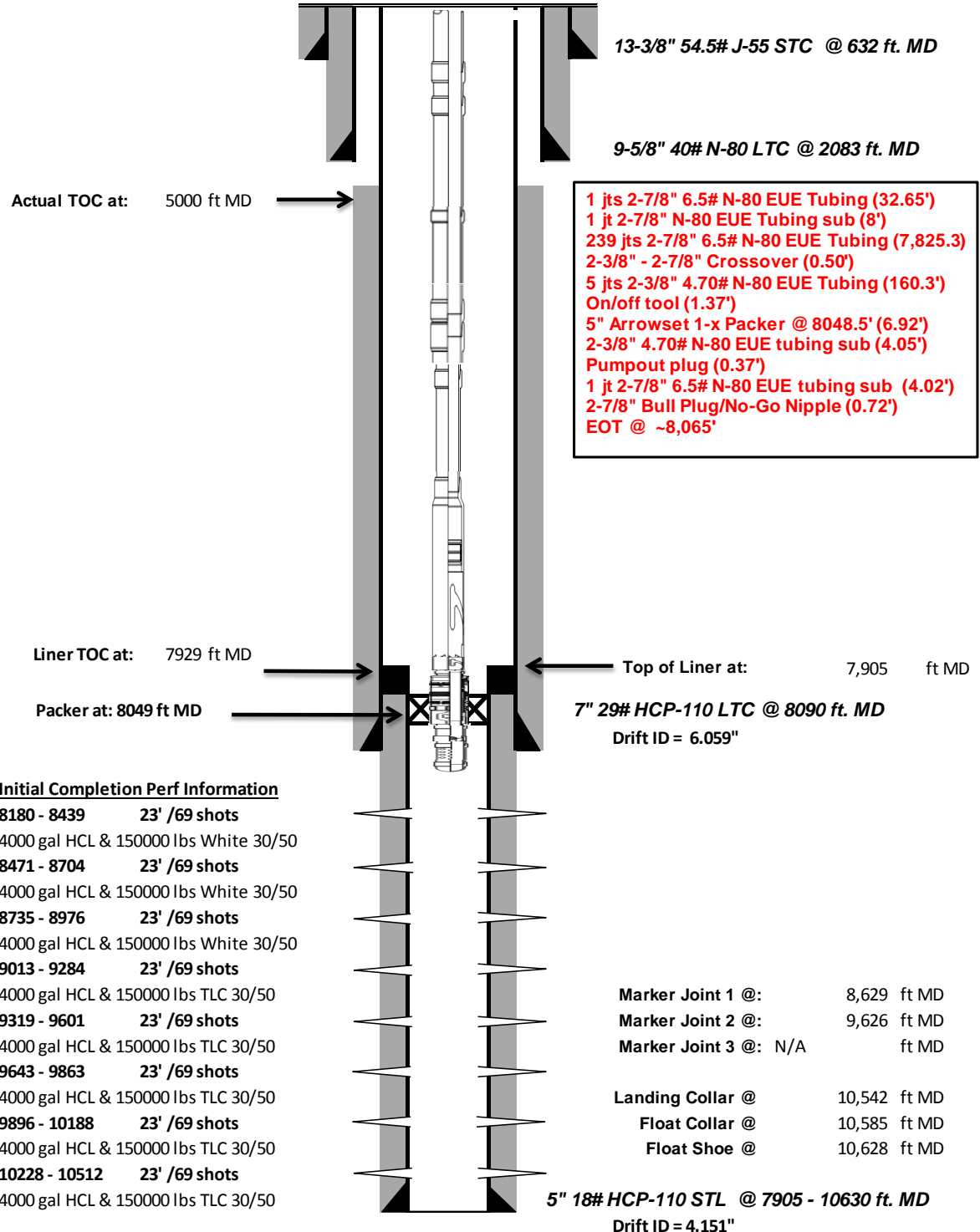
ROD DETAIL @ 4.3 SPM
1-1/2" x 40' Polished Rod
95 (2,375') - 1" EL Rods W/G
161 (4,025') - 7/8" EL Rods W/G
52 (1,300') - 1" EL Rods W/G
2-1/4" x 40' HF Pump Plunger

- 8) RDMO WOR.
- 9) Hang off rods on Rota-flex bridle. Test stroke unit and make sure pump is not tagging.
- 10) NU tree with rattigan, flow-T, rattigan, and stuffing box. Turn well over to production. RDMO WOR.

Moon 3-25C5
Artificial Lift InstallCurrent Wellbore Schematic

Well Name: **Moon 3-25C5**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, Utah**
 Surface Location: **Lat: 40° 11' 10.896" N Long: 110° 23' 32.1102" W**
 Producing Zone(s): **Wasatch**

Last Updated: **4/7/2016**
 By: **Weitzel**
 TD: **10,628**
 API: **4301352398**
 AFE:



Moon 3-25C5
Artificial Lift InstallProposed Pumping Wellbore Schematic

Well Name: **Moon 3-25C5**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, Utah**
 Surface Location: **Lat: 40° 11' 10.896" N Long: 110° 23' 32.1102" W**
 Producing Zone(s): **Wasatch**

Last Updated: **4/4/2016**
 By: **Tomova**
 TD: **10,628**
 API: **4301352398**
 AFE: **160706**

8.43 ppg KCL substitute (Clay Webb Water) water in the wellbore

236 jts 2-7/8" 6.5# L-80 8rd Tubing

13-3/8" 54.5# J-55 STC @ 632 ft. ML

9-5/8" 40# N-80 LTC @ 2083 ft. MD

Actual TOC at: 5000 ft MD

ROD DETAIL @ 4.3 SPM
1-1/2" x 40' Polished Rod
95 (2,375') - 1" EL Rods W/G
161 (4,025') - 7/8" EL Rods W/G
52 (1,300') - 1" EL Rods W/G
2-1/4" x 40' HF Pump Plunger

Tubing Anchor @ ~7,575'
4 jts 2-7/8" 6.5# N-80 8rd Tubing
2-7/8" X 2-1/4" X 38' Pump Barrel
4' x 2-7/8" pup jt
Seating Nipple @ ~7,700'
2' x 2 7/8" Tubing Sub
5 1/2" x 32' PBGA
2 jt 2-7/8" Mud Anchor
Bull Plug/No-Go Nipple
EOT @ ~7,800'

Liner TOC at: 7929 ft MD

Top of Liner at: 7,905 ft MD

7" 29# HCP-110 LTC @ 8090 ft. MD
 Drift ID = 6.059"

Initial Completion Perf Information

Stage #8 8180 - 8439 23' /69 shots
 4000 gal HCL & 150000 lbs White 30/50
Stage #7 8471 - 8704 23' /69 shots
 4000 gal HCL & 150000 lbs White 30/50
Stage #6 8735 - 8976 23' /69 shots
 4000 gal HCL & 150000 lbs White 30/50
Stage #5 9013 - 9284 23' /69 shots
 4000 gal HCL & 150000 lbs TLC 30/50
Stage #4 9319 - 9601 23' /69 shots
 4000 gal HCL & 150000 lbs TLC 30/50
Stage #3 9643 - 9863 23' /69 shots
 4000 gal HCL & 150000 lbs TLC 30/50
Stage #2 9896 - 10188 23' /69 shots
 4000 gal HCL & 150000 lbs TLC 30/50
Stage #1 10228 - 10512 23' /69 shots
 4000 gal HCL & 150000 lbs TLC 30/50

Marker Joint 1 @: 8,629 ft MD
Marker Joint 2 @: 9,626 ft MD
Marker Joint 3 @: N/A ft MD

Landing Collar @ 10,542 ft MD
Float Collar @ 10,585 ft MD
Float Shoe @ 10,628 ft MD

5" 18# HCP-110 STL @ 7905 - 10630 ft. MD
 Drift ID = 4.151"

Moon 3-25C5
Artificial Lift Install

RODSTAR 3.6.1

Company: EP Energy

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Well: Moon 3-25C5

User: Sameei

Disk file: moon 3-25c5-ic-2in-7700ft-4.3spm-12-7-15.rsdX

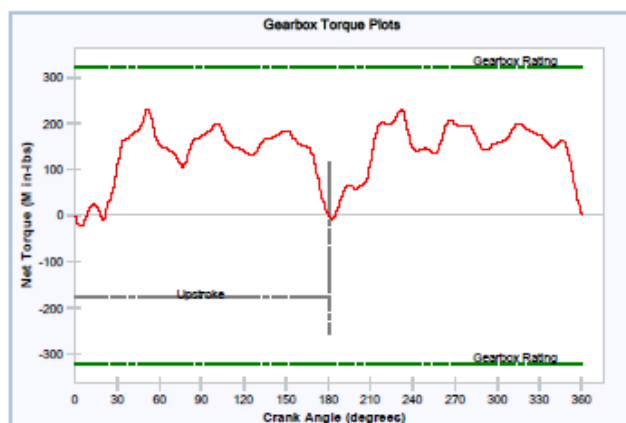
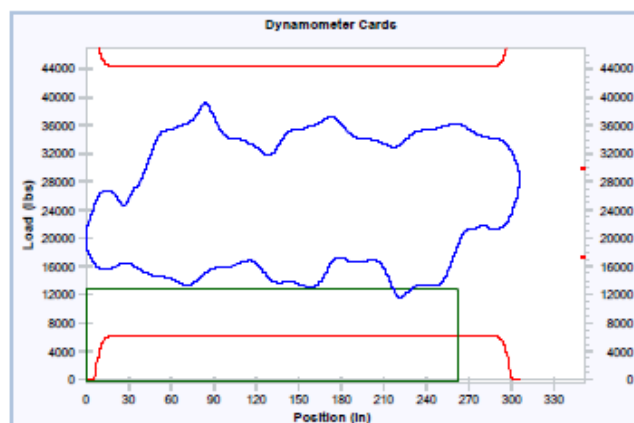
Date: 12/7/2015

Comment:

INPUT DATA				CALCULATED RESULTS (TOTAL SCORE: 100% Grade: A+)					
Strokes per minute:	4.3	Fluid level		Production rate (bfpd):	565	Peak pol. pod load (lbs):	39100		
Run time (hrs/day):	24.0	(ft from surface):	7700	Oil production (BOPD):	141	Min. pol. rod load (lbs):	11523		
Tubing pres. (psi):	50	(ft over pump):	0	Strokes per minute:	4.3	MPRL/PPRL:	0.295		
Casing pres. (psi):	50	Stuf.Box Fr. (lbs):	100	System Eff. (Motor->Pump):	46%	Unit struct. loading:	78%		
		Pol. rod. diam. 1.5"		Permissible Load Hp:	129	PRHP / PLHP:	0.45		
Fluid Properties		Motor & Power Meter		Fluid load on pump (lbs):	12680	Buoyant rod weight (lbs):	17243		
Water cut:	75%	Power meter Detent		Fluid level tvd (ft from surface):	7661	N/No: .134 , Fo/SKR: .186			
Water sp. gravity:	1.01	Elect. cost: \$.06/KWH		Polished rod HP:	57.6				
Oil API gravity:	42.0	Type: NEMA D		Required prime mover size	Balanced (Min Torq)				
Fluid sp. gravity:	0.9614			(speed var. not included)					
Pumping Unit:Rotaflex (1100)				NEMA D motor:	100 HP				
API Size: R-320-500-306 (Unit ID: R4)				Single/double cyl. engine:	75 HP				
Crank hole number:	# 1 (out of 1)			Multicylinder Engine:	100 HP				
Calculated stroke length (in):	305.7			Torque analysis and electricity	Balanced (Min Torq)				
Crank rotation with well to right:	CCW			consumption					
Max. cb weight (M lbs):	Unknown			Peak g'box torq.(M in-lbs):	231				
Tubing And Pump Information				Gearbox loading:	72.3%				
Tubing O.D. (in):	2.875	Upstr. Rod-Fl. Damp. Coeff.: 0.100		Cyclic load factor:	1.093				
Tubing I.D. (in):	2.441	Dnstr. Rod-Fl. Damp. Coeff.: 0.100		Counterbalance weight(M lbs):	25.31				
Pump depth (ft):	7700	Tub.anch.depth (ft):	7575	Daily Electr.Use (Kwh/Day):	1210				
Pump conditions:	Full			Monthly Electric Bill:	\$2215				
Pump type:	Tubing	Pump vol. efficiency:	85%	Electr.cost per bbl fluid:	\$0.128				
Plunger size (in):	2.25	Pump friction (lbs):	200.0	Electr.cost per bbl oil:	\$0.514				
Rod string design				Tubing, Pump And Plunger Calculations					
Diameter (in)	Rod Grade	Length (ft)	Min. Tensile Strength (psi)	Fric. Coeff	Stress Load %	Top Maximum Stress (psi)	Top Minimum Stress (psi)	Bot. Minimum Stress (psi)	# Guides/Rod
+ 1	WFT EL	2375	N/A	0.2	92.8%	49656	14799	8570	4
0.875	WFT EL	4025	N/A	0.2	93.1%	48732	10717	424	5
+ 1	WFT EL	1300	N/A	0.2	42.9%	20651	-881	-255	4

+ requires stimhole couplings.

NOTE: Displayed bottom minimum stress calculations do not include buoyancy effects (top minimum and maximum stresses always include buoyancy).



Moon 3-25C5
Artificial Lift Install

Safety, Compliance and Administrative

1. Pre-job

- Verify that all tree valves are functioning properly.
- Record SITP and SICP and report to Project Engineer.
- Hold pre-job JSA and ensure all personnel are oriented on EP Energy safety standards, job procedures, each person's role in the job, and over all safety standards.
- Hold a Pre-Pad meeting prior to executing operations; **does not include rigging up of equipment**. The Pre-Pad meeting attendees should be the various supervisors and leaders of the services companies that will be used on the pad, all the EP Well Site Consultants for the pad at that time, the Project Engineer, and the Completions Supervisor. The Project Engineer will either call into the meeting or attend in person. The Operations Supervisor will attend all Frac Pre-Pad meetings at a minimum.

2. Billing procedures

- All field tickets will be coded and signed by the Well Site Consultant.
- All tickets will be mailed to the address below:

Attention: Completions Department
c/o EP Energy
P.O. Box 154
Houston, Texas 77001

3. Ordering equipment

- All equipment, personnel and services will be ordered by the Well Site Supervisor utilizing the preferred vendor list from the approved procedure.
- Project Engineer can/will also order out specialized equipment as needed. They will inform the Well Site Supervisor of status of equipment.

4. Daily reports

- JSA's will be completed on every job **and** when the job scope changes.
- Well Site Supervisor is responsible to submit observations highlighting positive, negative or safe/unsafe operations.
- Vendor observations shall be given to the Well Site Supervisor to submit and reviewed in Daily meetings.

5. Accident Reporting Blue Print C-13

- **All** accidents will be reported to the Operations Supervisor. If he is not available, the Completions Superintendent will be notified. All accidents will be reported to the Project Engineer. If the Project Engineer is not available, the incident will be reported to the Operations Manager. The EP Energy HSER Representative will also be notified immediately.

6. Personnel Qualifications

- Well Site Supervisors and/or onsite EP Energy representatives shall require all personnel to provide current Contractor Training records of all personnel on location.
- Well Site Supervisors shall ensure that all personnel on location are qualified and trained as required. If the subject personnel are not qualified, ensure that a qualified replacement is sent to location immediately.
- Certification cards shall be checked for Crane operators, forklift operators and man lift operators.

7. Changes

Moon 3-25C5
Artificial Lift Install

- Any and all changes to procedures and/or vendors will be confirmed by the Project Engineer **prior** to the changes taking place.

8. Stop Work Responsibility

- Ensure that at all safety, JSA and procedural meeting on location that all personnel are aware that if **an unsafe condition exist**, the job should be shut down and that this authority is vested in each individual when that individual sees an unsafe condition and it is their responsibility to speak up.
- The condition should be brought up the chain of authority and finally to the Engineering Manager if necessary. Once the unsafe condition is investigated onsite and corrected and operations deemed safe, the job will continue. If the condition cannot be engineered out, discuss the situation with the Project Engineer for resolution.
- While everyone on the job has the right to stop work for safety conditions, everyone also has the responsibility to help determine how to safely proceed with the work to complete the job.

9. Third Party Tickets

- Any 3rd party work or material that you are receiving and will be billed direct to EP Energy, the Delivery Tickets will be forwarded with the delivery tickets to location for the Well site Supervisor to approve and code.
- Invoices will not be approved or processed without the well site supervisor's approval of delivery tickets.

10. Cased Hole Responsibilities

- A JSA has to be completed on every job every day **and** when the job scope changes prior to the work being started.
- Minimum of one (1) safety observation per day by each consultant on duty will be submitted. The observations can be submitted throughout the week or at the end of the week time. The week will begin on Tuesday and end on Monday. All observations must be submitted by the end of the consultants shift on Monday. The observations will be sent to the Completions Supervisor on duty for review and to enter into the tracker system. The observation will also be discussed with the Project Engineer.
- Communicate with Project Engineer daily and when scope of job changes.
- Be proactive in suggestions when the procedure changes. Have ideas on how to accomplish task.
- Digital pictures or drawings of **all BHA** prior to running assembly in hole.
- Ensure that preferred vendors list from the approved procedure is being followed. If changes are needed, get approval first.
- Crown valves shall be used at all times when rigging up and working on wells. Operations Supervisor and Project Engineer will be notified **prior** to using any master valve.
- Any leaking valve will be reported to the Well Site Supervisor immediately and noted on morning report.
- Vendors working on 12 on / 12 off shift will spend enough time with relief prior to leaving for rest to ensure that person in charge is up to speed on what has happened and what the plan is going forward. (Good information hand off)
- Report **any and all incidents to include but not limited to (injuries, fires and crane damage)** to Well Site Supervisor immediately.
- Whenever the man lift is in operation, it is required to have two (2) qualified personnel in the man lift.
- No cell phones, I-pods or any type of electronic device is allowed in the work area.
- PPE requirements:
 - FRC Clothing
 - Steel Toed boots
 - Hard Hat

Moon 3-25C5
Artificial Lift Install

- Safety Glasses
 - Appropriate hand protection
 - Any other required by Well Site Supervisor or Safety regulation
- Keep location clean / Pick up trash and debris
- Two (2) tag lines will be used on all lifts
- Assigned personnel will be used as spotters when any equipment is being placed or moved on location
- Wheels will be chocked as needed
- No open blade knives are allowed on the work location
- 100% FRC required of all personnel on location
- No types of energy drinks allowed on location
- Face shields and goggles will be used when connecting and dis-connecting hoses to and from vacuum truck and when steaming off any equipment.
- Contractors must provide one English bilingual supervisor for every five non-English speaking employees

11. Additional Responsibilities

- Verify that no more than 1 SSE (short service employee) out of 5 people per company per shift is on location. If the SSE to non-SSE personnel ratio is greater than 1 to 5, the Completions Department Superintendent or Manager will be contacted for approval.
- During summer/heat months, ensure that cooling fans or trailers are on location and being utilized. Breaks will be taken on the 10, 2 and 4 timeframe.
- Only water and sports drinks are allowed on location. (No energy drinks are allowed).
- Have in possession a heat gun to be used to check body temperature and the documentation to determine if contractors can continue to work.

12. BOP Testing

- All BOP's will be tested to specified pressure stated in the approved procedure. The test will be documented on a chart which will be signed and dated by the Well Site Supervisor or Consultant. The serial number of the BOP will be documented on the chart along with the date of the test.
- The Operations Supervisor will be notified of any BOP test that fails and what was needed to correct the problem.

13. Flowback

- Flow back equipment will be sourced with discussions with the Project Engineer. If H2S concentrations are known or expected to be equal to or greater than 10 ppm, H2S designed equipment will be used. Certification papers on the equipment will be verified prior to utilizing. Safety systems (SDV and ESD systems) will be provided by the vendor and tested for functionality prior to beginning operations.
- Detailed procedures will be provided by the Contractor detailing at a minimum with certification papers as required:
 - Equipment to be used
 - Facility layout of the equipment with distances per State requirements
 - Procedure for rigging up and testing equipment
 - Procedure for Operating equipment
 - Safety systems and their locations with testing procedures
 - Maximum rates and pressures of the equipment utilized

Moon 3-25C5
Artificial Lift Install

15. Wellhead Operations During Frac/Wire Line:

- The Consultant will be on location next to the accumulator and will be directing the operations of opening or closing valves on the stack. Stack valves will only be operated when the Consultant give the “GO” to do so.
- The Consultant and the accumulator operator will discuss and visually ask “is this the right valve and are you ready for me to open/close it? Consultant will confirm agreement when satisfied that all is ready and give instructions to operate the valve.
- The Consultant is the only person who can give instructions to operate a stack valve.
- Operation of frac stack valves shall not be functioned unless people are a safe distance away from the well head and man basket is on the ground.
- Operation of frac stack valves shall not be functioned without a ‘GO’ ordered by the EP Energy well site consultant.
- EP Energy well site consultant shall not order a valve to be functioned without requesting a ‘GO’ from other team members as required (e.g. wire line, wire line pressure control, frac, frac stack, etc.).
- Night cap shall be installed only with the aid of a fast line on the crane, not man handled.
- All cranes used on EP Energy frac jobs shall have a fast line capability.
- Accumulators used on EP Energy operations shall have a lever lock safety feature installed, preferably the spring loaded variety.
- Accumulators used on EP Energy operations shall be clearly marked as to the valve it will function.
- Radios shall be used by principal team members (including key frac personnel, frac stack supervisor, wire line pressure control supervisor, wireline supervisor, and well site consultants).
- Accumulator operators shall be properly trained and certified by the service company prior to being allowed to function the closing units for EP Energy.
- EP Energy well site consultants shall continue to remind service company hands during JSA’s the level potential danger involved in frac operations and appropriate levels of care/concern be given to their tasks.

Vendor Contact List

Moon 3-25C5
Artificial Lift Install

SERVICE	COMPANY	CONTACT	LOCATION	PHONE	Contract/MSA#
Cementing	Pro Petro	MD Martin	Vernal	435-789-7407	EPPC-MSA-1280
Cementing	BJ services	Darren Bailey	Vernal	435-790-0169	EPPC-MSA-700
Cementing	Halliburton	Zack	Vernal	435-789-2550	EPPC -MSA-205
Coil Tubing	Coil Tubing Services	John Partain	Rock Springs	307-382-0750	EPPC-MSA-384
Coil tubing	IPS		Rock Springs	307-371-0036	
Coil Motor & Mills	Thru Tubing Solutions	Rhys Wootan	North Dakota	701-839-80167	
Coil Motor & Mills	STI	Norm Powell	Vernal	435-790-0109	
Coil Motor & Mills	QES	Kent Barker	Rock Springs WY	307-362-9223	
Coil Motor & Mills	Weatherford	Andy	Vernal	435-828-8508	
Slick Line	Delsco	Chad Richard	Roosevelt	435-823-4134	EPEPC-MSA-1681
E-Line Services	Cutters	Dave Anderson	Vernal	435-789-4816	
E-Line Services	Cased hole solution	Arnie Eksund	Vernal	435-781-4192	EPEPC-MSA-1044
E-Line Services	Lone Wolf	Jon Bowden	Vernal	435-789-4815	
E-Line Services	Pioneer	Gary Murray	Vernal	435-724-2589	
E-Line Services	Perforators	Mitch Funk	Roosevelt	435-725-2344	
Logging	Protechnics	Glen	Vernal	505-330-9171	
Frac Tanks/2% KCl	Dalbo	Kent Henline	Vernal	435-823-7300	EPEPC-MSA-1327
Frac Tanks/2% KCl	CHI		Vernal	435-828-8778	
Frac Tanks/2% KCl	Rain for rent	Lynn Bell	Roosevelt	801-541-1661	EPPC-MSA-804
Heating	Action hot oil	Leon Richins	Roosevelt	435-722-2190	EPEPC-MSA-1226
Heating	Hot oil express	Tyson Christensen	Roosevelt	435-823-7716	
Heating	Willies hot oil	Ronnie Miller	Vernal	435-823-6215	EPEPC-MSA-1358
Office/Misc. Rentals	Action	Jeremy	Ballard	435-789-5224	
Office/Misc. Rentals	ROSS	Richard Ross	Roosevelt	435-823-0979	
Packers & Plugs	Baker		Vernal	435-789-5918	EPPC-MSA-551
Packers & Plugs	Nabors	Lee Slaugh	Roosevelt	435-823-0148	
Packers & Plugs	Weatherford	Tracy Neilson	Vernal	435-828-8142	EPPC-MSA-588
Rentals	H & S rental	Heavy Sursa	Bluebell	435-823-7300	
Rentals	Nabors	Lee Slaugh	Roosevelt	435-823-0148	EPEPC-MSA-1000
Rentals	Weatherford	Todd Logan	Vernal	435-789-0445	EPPC-MSA-588
Rentals	Weatherford	Rory Hatch	Vernal	435-789-0445	
Stimulation Seivces	BJ Services	Darin Baily	Vernal	435-790-0169	EPPC-MSA-700
Stimulation Seivces	Weatherford	Andrew Babey	Vernal	435-789-7121	
Stimulation Seivces	Platinum	Howard Gilman	Vernal	801-834-3061	
Water Trucking	Double B Trans	Bruce Jenkins	Altamont	435-828-6814	
Water Trucking	Hot oil express	Tyson Christensen	Altamont	435-823-7716	
Water Trucking	Shields Trucking	Joe Shields	Roosevelt	435-823-0231	
Water Trucking	RNI Inc	Zeke Zakurdy	Roosevelt	435-823-1203	
Water Trucking	Nebeker Trucking	Jim Nebeker	Roosevelt	435-823-6157	
Water Trucking	Oil Field Class	Leroy Sherwood	Roosevelt	435-823-5714	
Water Trucking	Single Shot	Byron Tomilson	Roosevelt	435-823-5038	
Rig Up Trucks	Jenkins Trucking	Ron Jenkins	Duchesne	435-722-7888	
Rig Up Trucks	Hagman Trucking	Jack Hagman	Roosevelt	435-828-0682	
Rig Up Trucks	Brough Trucking	Jim Brough	Roosevelt	435-722-1500	
Rig Up Trucks	Grizzly Trucking		Altamont	435-823-3375	
Fishing & Rentals	RBS Rentals	Gary Roher	Roosevelt	435-823-7278	
Fishing & Rentals	Weatherford Fishing	Office	Vernal	435-789-0445	
Fishing & Rentals	Triple H	Lou Hackford	Vernal	435-789-7444	
Fishing & Rentals	Four Star Fishing	Sam Wacker	Roosevelt	435-722-2310	

Moon 3-25C5
Artificial Lift Install

Fishing & Rentals	Slaugh Fishing	Rick Robins	Vernal	435-781-1661	
Fishing & Rentals	Graco	Mike McCarley	Vernal	435-789-6804	
Flowback & Testing	Delsco	Chad Richard	Roosevelt	435-823-4134	
Flowback & Testing	BB Oilfield	Ben Birchell	Roosevelt	435-823-2917	
Flowback & Testing	C&J Cons	Jason Gilbert	Altamont	435-219-0077	
Flowback & Testing	Rig 1	Sean Lytle	Vernal	435-621-2727	
Roustabouts & Welders	RT Oilfield	Tim Thacker	Altamont	435-823-6683	
Roustabouts & Welders	SCI Oilfield Services	Cody Shiner	Altamont	435-823-6308	
Roustabouts & Welders	S&J Oilfield Service	Shad Fields	Roosevelt	435-823-3854	
Roustabouts & Welders	Lindsey Welding	Kim Lindsey	Altamont	435-823-6726	
Roustabouts & Welders	Straight Shot	Kim Blanchard	Roosevelt	435-823-6604	
Roustabouts & Welders	Robison Construction	Gary Robison	Roosevelt	435-823-6591	
Consultants	C&J Cons	Russell Pickup	Roosevelt	435-823-8742	
Consultants	C&J Cons	Eric Powell	Roosevelt	435-828-8596	
Consultants	C&J Cons	Chris Lloyd	Roosevelt	435-724-3266	
Consultants	C&J Cons	Skyler Atwood	Altamont	435-322-0295	
Consultants	Boone Cons	Matt Filingim	Roosevelt	435-724-1154	
Consultants	Boone Cons	Mike Johnson	Roosevelt	435-823-5527	
Consultants	Boone Cons	Stewart Mortensen	Roosevelt	435-823-2065	
Field Nurse	Delsco	Jake Peatree	Vernal	435-219-0109	
Anchor Testing	Benco	Twane & Earl	Vernal	435-789-1244	
Electrician	GS Electric	Gary Sorensen	Altamont	435-823-5616	
Electrician	Jessen Electric	Dewey Jessen	Altamont	435-823-3978	
Cranes	B&G Crane	Jason Timothy	Altamont	435-823-6682	
Cranes	Valley Crest	Steve Iverson	Duchesne	801-262-0567	
Service Rigs	Nabors well service	Ray Morlan	Roosevelt	435-823-6713	
Service Rigs	Peak Well Service	Tyler Lamb	Roosevelt	435-828-2524	
Service Rigs	Magna Well Service	Chad Vannest	Casper WY	970-867-9007	
Service Rigs	Basic Well Service	Lane Norton	Roosevelt	435-823-0224	
ESP Artificial lift	Shlumberger	Dean Aylett	Colorado	303-803-7122	
ESP Artificial lift	GE	Craig Coleman	Texas	303-253-5819	
ESP Artificial lift	Baker Hughes	Bob varcados	WY	970-903-7082	
Well head Protection	Stinger/ Oil States	Mike Holfeltz	Vernal	435-789-8115	
Rod Pumps	Weatherford	Bob Cambell	Roosevelt	435-722-0990	
Rod Pumps	National oilwell	Bennie Van	Roosevelt	435-724-0173	

Agency Contact List			
AGENCY	CONTACT	OFFICE	CELL
DOGM	Dustin Doucet	801-538-5281	
DOGM	Dennis Ingram	435-722-3417	435-722-7584
BLM	Ryan Angus	435-781-4430	435-828-7368
BLM	Bill Owens	435-781-4498	435-828-7630
BLM	Ray Arnold	435-781-4485	435-828-7499
BIA	Bucky Secakuku	435-722-4331	
BIA	Bruce Pargeets	435-725-4999	
BIA	Fax	435-722-2323	

Moon 3-25C5
Artificial Lift Install

Completion Checklist: Onsite EP Supervisor Accountable for checklist

Pre-Frac Checklist Item:	Check and Initials							
Location Name & Number:								
Date: M/D/Y								
Production and Casing Line Disconnected								
Automatic Actuator Valves on FracStack are tested and operational								
Frac Van is not spotted (Parked) directly in line with flow tee from Frac stack								
Trip Hazards near Well Head Eliminated								
All valves on frac stack and lines are in the proper positions for pumping and or shut in								
All frac lines tested and no leaks observed								
During frac operations insure all valves are in the correct positons								
During wireline operations Insure all valves are in the correct position for wireline operations.								
Ensure casing valves are connected to the proper flowback tanks and valves positioned properly								
	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6	Stage 7	Stage 8
All operators and personnel Clear from near vicinity of high pressure equipment and lines during High Pressure testing and pumping								
Ensure all casing valves on well head are functioning properly(Greased) and in correct position (order Inside going out)								
* Casing Valve #1 Size: _____ (Eg. 7")								
* Casing Valve #2 Size: _____ (Eg. 9 5/8")								
* Casing Valve #3 Size: _____ (Eg. 9 5/8")								
* Casing Valve #4 Size: _____ (Eg. 9 5/8")								
* Misc Valve #5 Size: _____								
* Misc Valve #6 Size: _____ (Eg. 9 5/8")								
Frac Stack								
All valves on flow back lines are tested, All flow back lines tested insure they are functioning correctly and in the proper position								
EP Energy's Consultant Signature.								
Weatherford Frac Supervisors signature.								

Note:** If anything does not apply pls discuss with Completion Supervisor/Engineer to put N.A